

10/598,623

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(FILE 'HOME' ENTERED AT 09:26:13 ON 16 FEB 2011)

FILE 'REGISTRY' ENTERED AT 09:26:24 ON 16 FEB 2011

L1 STRUCTURE UPLOADED
L2 15 S L1
L3 274 S L1 SSS FUL
L4 173 S L3 AND NRS=1
L5 101 S L3 NOT L4

FILE 'CAPLUS' ENTERED AT 09:30:20 ON 16 FEB 2011

L6 485 S L4
L7 ANALYZE L6 1- RN HIT : 156 TERMS

FILE 'REGISTRY' ENTERED AT 09:31:06 ON 16 FEB 2011

L8 1 S 29331-92-8/RN
L9 1 S 58955-93-4/RN
L10 1 S 236395-14-5/RN
L11 1 S 35079-97-1/RN
L12 1100 S 104746?/RN
L13 1 S 4698-11-7/RN
L14 1 S 366012-69-3/RN
L15 1 S 28721-09-7/RN
L16 1 S 186694-11-1/RN
L17 3 S L12 AND L6
L18 164 S L4 NOT (L8 OR L9 OR L10 OR L11 OR L15 OR L16 OR L17)

FILE 'CAPLUS' ENTERED AT 09:36:36 ON 16 FEB 2011

L19 158 S L18

FILE 'REGISTRY' ENTERED AT 09:36:50 ON 16 FEB 2011

L20 18 S L18 AND 1-2/BR
L21 458 S C16 H12 BR N O2/MF
L22 1 S L20 AND L21
L23 STRUCTURE UPLOADED
L24 0 S L23 SUB=L3 FUL
L25 167 S L4 AND 6-6-7/SZ
L26 2896 S C15 H12 N2 O2/MF
L27 458 S C16 H12 BR N O2/MF
L28 603 S C17 H14 BR N O2/MF
L29 1827 S C15 H13 N O/MF
L30 2554 S C16 H15 N O/MF
L31 3573 S C15 H14 N2 O2/MF
L32 1 S L25 AND L26
L33 1 S L25 AND L27
L34 1 S L25 AND L28
L35 1 S L25 AND L29
L36 1 S L25 AND L30

FILE 'CAPLUS' ENTERED AT 09:54:57 ON 16 FEB 2011

L37 29 S L32
L38 1 S L33
L39 1 S L34
L40 48 S L35
L41 8 S L36
L42 80 S L37 OR L38 OR L39 OR L40 OR L41

10/598,623

L43 78 S L19 NOT L42
L44 58 S L42 NOT (2011/SO OR 2010/SO OR 2009/SO OR 2008/SO OR 2007/SO
L45 73 S L43 NOT (2011/SO OR 2010/SO OR 2009/SO OR 2008/SO OR 2007/SO

FILE 'REGISTRY' ENTERED AT 09:57:26 ON 16 FEB 2011

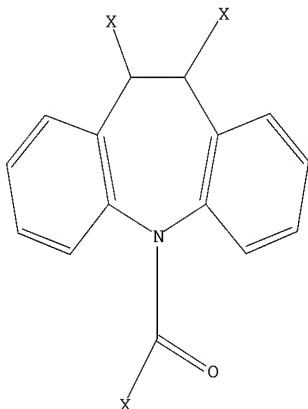
L46 0 S "10,11-DIHYDRO-10-OXO-5H-DIBENZ (B,F) AZEPINE-5-CARBOXZMIDE"/CN
L47 0 S "10,11-DIHYDRO-10-OXO-5H-DIBENZ (B,F) AZEPINE-5-CARBOXZMIDE"
L48 0 S "DIBENZ (B,F) AZEPINE"/CNS AND CARBOXZMIDE/CNS
L49 796 S "DIBENZ (B,F) AZEPINE"/CNS AND CARBOXAMIDE/CNS
L50 16 S 10-OXO/CNS AND L49
L51 5 S L50 AND C15 H12 N2 O2/MF
L52 11 S L50 NOT L51
L53 5 S 28721-07-5/CRN
L54 10 S L51 OR L53
L55 6 S L52 NOT L54
L56 1 S L55 AND C15 H12 N2 O3/MF
L57 11 S L54 OR L56

FILE 'CAPLUS' ENTERED AT 10:03:27 ON 16 FEB 2011

L58 1050 S L57
L59 51 S L35 OR L36 OR L33 OR L34
L60 23 S L58 AND L59
L61 51 S L59 OR L60
L62 46 S L61 NOT (2011/SO OR 2010/SO OR 2009/SO OR 2008/SO OR 2007/SO

=> d 123

L23 HAS NO ANSWERS
L23 STR



G1 H
G2 O,X

Structure attributes must be viewed using STN Express query preparation.

L62 ANSWER 1 OF 46 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2009:1433181 CAPLUS
 DOCUMENT NUMBER: 151:550447
 TITLE: An improved process for the preparation of
 oxcarbazepine
 INVENTOR(S): Karusala, Nageswara Rao; Tummalapally, Uma Sankara
 Sastry; Talatala, Appi Reddy; Datta, Debashish
 PATENT ASSIGNEE(S): Matrix Laboratories Ltd., India
 SOURCE: PCT Int. Appl., 13 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2009139001	A2	20091119	WO 2009-IN272	20090506
WO 2009139001	A3	20110127		
W:	AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA			
PRIORITY APPLN. INFO.:		IN 2008-CH1135	A	20080508
		IN 2008-CH1678	A	20080710

OTHER SOURCE(S): CASREACT 151:550447

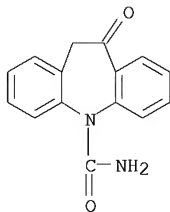
AB The present invention relates to an improved process for the preparation of 10-oxo-10,11-dihydro-5H-dibenz[b,f]azepine-5-carboxamide (oxcarbazepine) by reacting 10-methoxy-5H-dibenz[b,f]azepine (10-methoxyiminostilbene) with alkali metal cyanate in presence of α -hydroxy acids followed by hydrolysis of the resulting intermediate. Thus, refluxing a mixture of 10-methoxyiminostilbene with sodium cyanate and mandelic acid in toluene afforded 10-methoxycarbamazepine which was subsequently treating with concentrate HCl to provide oxcarbazepine. This invention also relates to the process for the preparation of carbamazepine from iminostilbene. Further the present invention is directed to the novel crystalline form of 10-methoxycarbamazepine.

IT 28721-07-5P, Oxcarbazepine
 RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

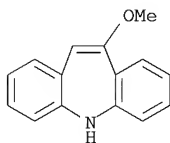
(improved process for the preparation of oxcarbazepine from 10-methoxyiminostilbene)

RN 28721-07-5 CAPLUS

CN 5H-Dibenz[b,f]azepine-5-carboxamide, 10,11-dihydro-10-oxo- (CA INDEX NAME)



IT 4698-11-7, 10-Methoxy-5H-dibenz[b,f]azepine
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (improved process for the preparation of oxcarbazepine from
 10-methoxyiminostilbene)
 RN 4698-11-7 CAPLUS
 CN 5H-Dibenz[b,f]azepine, 10-methoxy- (CA INDEX NAME)



L62 ANSWER 2 OF 46 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2009:800495 CAPLUS
 DOCUMENT NUMBER: 151:56740
 TITLE: Preparation of iminostilbene derivatives
 INVENTOR(S): Milanese, Alberto
 PATENT ASSIGNEE(S): Milanese Alberto, Italy
 SOURCE: Ital. Appl., 18 pp.
 CODEN: ITXXCZ
 DOCUMENT TYPE: Patent
 LANGUAGE: Italian
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
IT 2004RM0260	A1	20040826	IT 2004-RM260	20040526
IT 1351663	B1	20090114		
PRIORITY APPLN. INFO.:			IT 2004-RM260	20040526

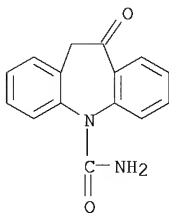
OTHER SOURCE(S): CASREACT 151:56740

AB Treatment of 10-methoxyiminostilbene with triphosgene in toluene containing triethylamine afforded the N-chlorocarbonyl derivative, which underwent ammonolysis and subsequent hydrolysis to yield oxcarbazepine.

IT 28721-07-5P
 RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
 (preparation of iminostilbene derivs.)

RN 28721-07-5 CAPLUS

CN 5H-Dibenz[b,f]azepine-5-carboxamide, 10,11-dihydro-10-oxo- (CA INDEX NAME)

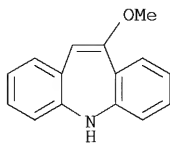


IT 4698-11-7
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of iminostilbene derivs.)

RN 4698-11-7 CAPLUS

CN 5H-Dibenz[b,f]azepine, 10-methoxy- (CA INDEX NAME)

10/598,623



L62 ANSWER 3 OF 46 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 2009:565201 CAPLUS
 DOCUMENT NUMBER: 150:563666
 TITLE: Method for synthesizing
 10-methoxy-5H-dibenzo[b,f]azepine
 INVENTOR(S): Chen, Shiming; Xu, Xuwei
 PATENT ASSIGNEE(S): Zhejiang Jiuzhou Pharmaceutical Co., Ltd., Peop. Rep.
 China
 SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 7pp.
 CODEN: CNXXEV
 DOCUMENT TYPE: Patent
 LANGUAGE: Chinese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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CN 101423496	A	20090506	CN 2008-10203842	20081202
PRIORITY APPLN. INFO.:			CN 2008-10203842	20081202

OTHER SOURCE(S): CASREACT 150:563666

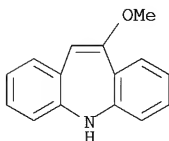
AB The title method comprises: carrying out a reaction of 10,11-dibromo-10,11-dihydro-5H-dibenz[b,f]azepine-5-carbonyl chloride (I) and alkali metal hydroxide or alkali metal alkoxide in mixed solvent to obtain 10-methoxy-5H-dibenzo[b,f]azepine (II). The mixed solvent contains methanol and aromatic solvent. The alkali metal hydroxide is selected from potassium hydroxide, and the alkali metal alkoxide is selected from potassium methoxide. In detail, the method comprises: adding potassium hydroxide or potassium methoxide in methanol, heating to reflux, adding aromatic solvent and I, heating to reflux for 6-8 h, adding water, stirring, washing with water, standing, removing water layer, vacuum-evaporating, cooling, filtering, and drying to obtain II. The method is simple, has high yield, and is suitable for large-scale production

IT 4698-11-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (synthesis of 10-methoxydibenzoazepine)

RN 4698-11-7 CAPLUS

CN 5H-Dibenz[b,f]azepine, 10-methoxy- (CA INDEX NAME)

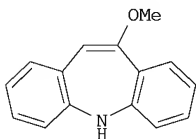


L62 ANSWER 4 OF 46 CAPLUS COPYRIGHT 2011 ACS on STN

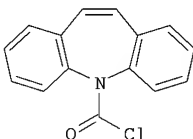
ACCESSION NUMBER: 2008:927510 CAPLUS
 DOCUMENT NUMBER: 150:494761
 TITLE: More efficient synthesis of alkoxybenzazepines
 INVENTOR(S): Ambady, Rajagopalan; Chaphekar, Sachin
 PATENT ASSIGNEE(S): Atul Ltd., India
 SOURCE: Indian Pat. Appl., 7pp.
 CODEN: INXXBQ
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
IN 2006MU01460	A	20080725	IN 2006-MU1460	20060914
PRIORITY APPLN. INFO.:			IN 2006-MU1460	20060914
OTHER SOURCE(S):	CASREACT	150:494761		

GI



I



II

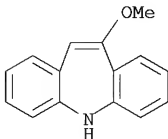
AB This invention relates to the preparation of 10-methoxy-5H-dibenz[b,f]azepine (I) which is a key intermediate for preparation of the anticonvulsant oxcarbazepine by two step reaction starting from iminostilbene carbonyl chloride (II) instead of iminostilbene. The reaction involves bromination of II followed by methoxylation by sodium methoxide in methanol. This process allows to avoid one step of protection of secondary amino group via acetylation.

IT 4698-11-7P, 10-Methoxy-5H-dibenz[b,f]azepine
 RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(more efficient synthesis of alkoxybenzazepines)

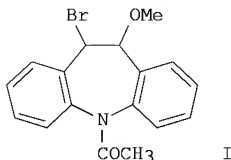
RN 4698-11-7 CAPLUS

CN 5H-Dibenz[b,f]azepine, 10-methoxy- (CA INDEX NAME)



L62 ANSWER 5 OF 46 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 2007:1420686 CAPLUS
 DOCUMENT NUMBER: 148:54911
 TITLE: Process for producing oxcarbazepine via an
 11-alkoxy-10-halo-dihydroiminostilbene intermediate
 INVENTOR(S): Gupta, Nitin; Singh, Harnam; Kumar, Pramod; Dubey,
 Sushil Kumar
 PATENT ASSIGNEE(S): Jubilant Organosys Limited, India
 SOURCE: PCT Int. Appl., 24pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007141798	A1	20071213	WO 2006-IN190	20060607
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
IN 2008DN10040	A	20090327	IN 2008-DN10040	20081202
PRIORITY APPLN. INFO.:			WO 2006-IN190	W 20060607
OTHER SOURCE(S):	CASREACT 148:54911			
GI				

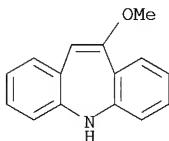


- AB The invention relates to a process for the production of 10-oxo-10,11-dihydro-5H-dibenz[b,f]azepine-5-carboxamide (oxcarbazepine), which is used in therapy as an anticonvulsant. For instance, protection of iminostilbene followed by halogenation in presence of methanol gave the intermediate compound (I). Dehydrohalogenation of the compound I followed by deprotection, carboxamidation, and hydrolysis gave the oxcarbazepine.
- IT 4698-11-7P
 RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of oxcarbazepine as anticonvulsant)

10/598,623

RN 4698-11-7 CAPLUS

CN 5H-Dibenz[b,f]azepine, 10-methoxy- (CA INDEX NAME)



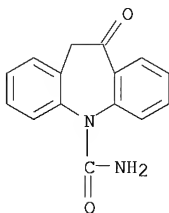
IT 28721-07-5P, Oxcarbazepine

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of oxcarbazepine as anticonvulsant)

RN 28721-07-5 CAPLUS

CN 5H-Dibenz[b,f]azepine-5-carboxamide, 10,11-dihydro-10-oxo- (CA INDEX NAME)



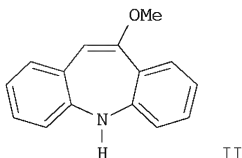
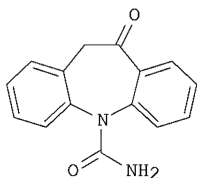
REFERENCE COUNT:

2

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L62 ANSWER 6 OF 46 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 2007:366651 CAPLUS
 DOCUMENT NUMBER: 147:522114
 TITLE: A process for preparation of oxcarbazepine
 INVENTOR(S): Chandrashekar, Parenky
 PATENT ASSIGNEE(S): Amoli Organics Pvt Ltd., India
 SOURCE: Indian Pat. Appl., 10pp.
 CODEN: INXXBQ
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO. -----	KIND ---	DATE -----	APPLICATION NO. -----	DATE -----
IN 2004MU00663	A	20060505	IN 2004-MU663	20040618
IN 223441	A1	20090206		
PRIORITY APPLN. INFO.:			IN 2004-MU663	20040618
OTHER SOURCE(S):		CASREACT 147:522114		
GI				



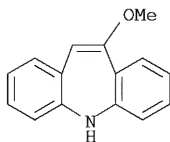
AB The invention relates to a process for the preparation of oxcarbazepine (I) from 10-methoxyiminostilbene (II). Oxcarbazepine is an anticonvulsant agent used for the treatment of Parkinson's disease and AIDS-related neural disorders. The process of the invention gives good quality and yield of oxcarbazepine, avoiding the use of hazardous materials, and higher temps., making the process more com. attractive. The target compound may be prepared according to the process of the invention as shown by the following example. Addition of II to sodium cyanate in the presence of chloroacetic acid in chloroform at 10-15 °C for 6 h gave the N-carbamoyl derivative of II, which underwent cleavage with p-toluenesulfonic acid at 75-80 °C in toluene to give oxcarbazepine (I) in 66% yield.

IT 4698-11-7, 10-Methoxy-5H-dibenz[b,f]azepine
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (starting material; process for preparation of oxcarbazepine)

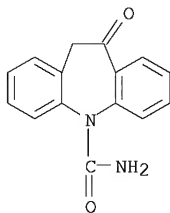
RN 4698-11-7 CAPLUS

CN 5H-Dibenz[b,f]azepine, 10-methoxy- (CA INDEX NAME)

10/598,623



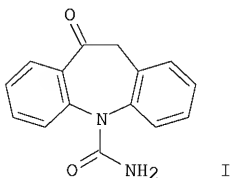
IT 28721-07-5P, Oxcarbazepine
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP
(Preparation)
(target compound; process for preparation of oxcarbazepine)
RN 28721-07-5 CAPLUS
CN 5H-Dibenz[b,f]azepine-5-carboxamide, 10,11-dihydro-10-oxo- (CA INDEX
NAME)



L62 ANSWER 7 OF 46 CAPLUS COPYRIGHT 2011 ACS on STN

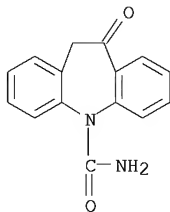
ACCESSION NUMBER: 2007:249527 CAPLUS
 DOCUMENT NUMBER: 147:427241
 TITLE: A process for the purification of oxcarbazepine
 INVENTOR(S): Venkataraman, Sundaram; Eswaraiah, Saja; Reddy, Koppera Ravindar; Satyanarayana, Revu
 PATENT ASSIGNEE(S): Reddys Laboratories Limited, India
 SOURCE: Indian Pat. Appl., 8pp.
 CODEN: INXXBQ
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
IN 2004CH00142	A	20051202	IN 2004-CH142	20040223
PRIORITY APPLN. INFO.:			IN 2004-CH142	20040223
OTHER SOURCE(S):	CASREACT 147:427241			
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AB Accordingly, the invention provides a process for the purification of oxcarbazepine. Oxcarbazepine dissolved in aqueous basic solution extracting with organic solvents and acidifying the aqueous solution followed by filtration of the separated solid by conventional methods to obtain pure Oxcarbazepine. Oxcarbazepine can be represented by formula (I).
 IT 28721-07-5P, Oxcarbazepine
 RL: PUR (Purification or recovery); SPN (Synthetic preparation); PREP (Preparation)
 (a process for the purification of oxcarbazepine)
 RN 28721-07-5 CAPLUS
 CN 5H-Dibenz[b,f]azepine-5-carboxamide, 10,11-dihydro-10-oxo- (CA INDEX NAME)

10/598,623



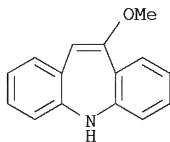
IT 4698-11-7

RL: RCT (Reactant); RACT (Reactant or reagent)

(a process for the purification of oxcarbazepine)

RN 4698-11-7 CAPLUS

CN 5H-Dibenz[b,f]azepine, 10-methoxy- (CA INDEX NAME)



L62 ANSWER 8 OF 46 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 2005:1333900 CAPLUS
 DOCUMENT NUMBER: 144:69748
 TITLE: Process for the preparation of oxcarbazepine and related intermediates
 INVENTOR(S): Che, Daqing; Corelli-Rennie, Nadia; Guntoori, Bhaskar Reddy; Faught, Jodi
 PATENT ASSIGNEE(S): Apotex Pharmachem Inc., Can.
 SOURCE: U.S. Pat. Appl. Publ., 6 pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20050282797	A1	20051222	US 2005-153370	20050616
US 7125987	B2	20061024		
CA 2471666	A1	20051218	CA 2004-2471666	20040618
CA 2471666	C	20091013		
WO 2005122671	A2	20051229	WO 2005-CA932	20050616
WO 2005122671	A3	20071108		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, AP, EA, EP, OA

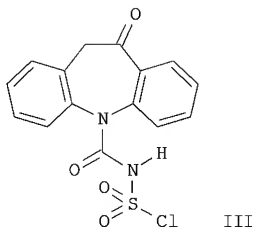
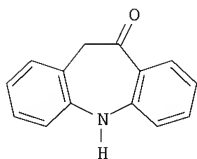
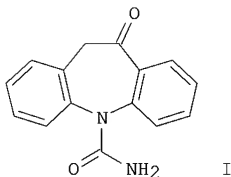
EP 1765786	A2	20070328	EP 2005-759468	20050616
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, LV, MK, YU			

PRIORITY APPLN. INFO.:	CA 2004-2471666	A	20040618
	WO 2005-CA932	W	20050616

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): CASREACT 144:69748

GI

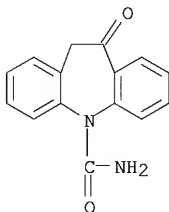


AB A process for preparing oxcarbazepine I, a more tolerable alternative to the popular anticonvulsant drug carbamazepine, comprising: (a) reacting oximinostilbene II with chlorosulfonyl isocyanate in an inert organic solvent and isolating compound III, (b) hydrolyzing III to form crude oxcarbazepine I, and (c) purifying oxcarbazepine.

IT 28721-07-5P, Oxcarbazepine
 RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
 (process for the preparation of oxcarbazepine and related intermediates)

RN 28721-07-5 CAPLUS

CN 5H-Dibenz[b,f]azepine-5-carboxamide, 10,11-dihydro-10-oxo- (CA INDEX NAME)

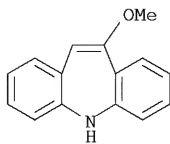


IT 4698-11-7
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (process for the preparation of oxcarbazepine and related intermediates)

RN 4698-11-7 CAPLUS

CN 5H-Dibenz[b,f]azepine, 10-methoxy- (CA INDEX NAME)

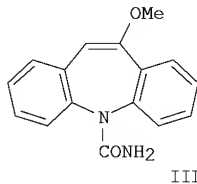
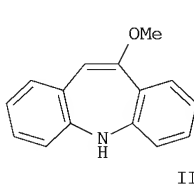
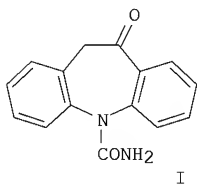
10/598,623



OS.CITING REF COUNT:	2	THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)
REFERENCE COUNT:	10	THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L62 ANSWER 9 OF 46 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 2005:1257994 CAPLUS
 DOCUMENT NUMBER: 144:22826
 TITLE: Process for the preparation of oxcarbazepine
 INVENTOR(S): Milanese, Alberto
 PATENT ASSIGNEE(S): Italy
 SOURCE: Eur. Pat. Appl., 12 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1600443	A1	20051130	EP 2004-425379	20040526
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
WO 2005118550	A1	20051215	WO 2005-EP3890	20050413
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1748988	A1	20070207	EP 2005-733290	20050413
EP 1748988	B1	20101110		
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
AT 487701	T	20101115	AT 2005-733290	20050413
PRIORITY APPLN. INFO.:			EP 2004-425379	A 20040526
			WO 2005-EP3890	W 20050413
OTHER SOURCE(S):	CASREACT 144:22826			
GI				



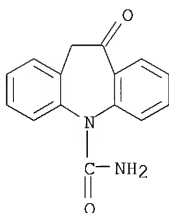
AB The preparation of oxcarbazepine (I) from 10-methoxyiminostilbene (II) is

claimed. For example, 66.9 g of II, in presence of 34.92 g of Et₃N in 800 mL of toluene, is gradually reacted with 32.67 g of triphosgene in 300 mL of toluene for 6 h at temperature of 10-15°. Next, 200 mL of 30% aqueous NH₃ is added to the reaction mixture at room temperature, and after some hours, 69.0 g of 10-methoxy-N-aminocarbonyliminostilbene (III) is obtained with purity > 95%. III is hydrolyzed by refluxing in 100 mL of 10% H₂SO₄, and after workup, 57.0 g of I is obtained.

IT 28721-07-5P
 RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
 (preparation of oxcarbazepine from methoxyiminostilbene in three steps)

RN 28721-07-5 CAPLUS

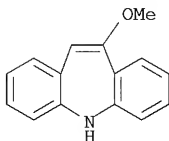
CN 5H-Dibenz[b,f]azepine-5-carboxamide, 10,11-dihydro-10-oxo- (CA INDEX NAME)



IT 4698-11-7
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of oxcarbazepine from methoxyiminostilbene in three steps)

RN 4698-11-7 CAPLUS

CN 5H-Dibenz[b,f]azepine, 10-methoxy- (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L62 ANSWER 10 OF 46 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2005:1123708 CAPLUS

DOCUMENT NUMBER: 143:386937

TITLE: Process for preparation of
10,11-dihydro-10-oxo-5H-dibenz[b,f]azepine-5-
carboxamideINVENTOR(S): Muthukumaran, Mandakini; Natarajan, Muthukumaran;
Thennati, Rajamannar

PATENT ASSIGNEE(S): Sun Pharmaceutical Industries Limited, India

SOURCE: PCT Int. Appl., 18 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2005096709	A2	20051020	WO 2005-IN77	20050310
WO 2005096709	A3	20060427		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
IN 2004MU00304	A	20061027	IN 2004-MU304	20040311
US 20080269480	A1	20081030	US 2008-598623	20080505
PRIORITY APPLN. INFO.:			IN 2004-MU304	A 20040311
			WO 2005-IN77	W 20050310

OTHER SOURCE(S): CASREACT 143:386937

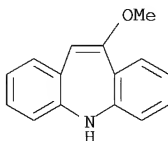
AB This invention pertains to a method for producing
10,11-dihydro-10-oxo-5H-dibenz[b,f]azepine-5-carboxamide which comprises
bromination, dehydrobromination, and esterification of
dibenz[b,f]azepine-5-carbonyl chloride.

IT 4698-11-7P 866874-00-2P

RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic
preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; preparation of 10,11-dihydro-10-oxo-5H-dibenz[b,f]azepine-5-
carboxamide)

RN 4698-11-7 CAPLUS

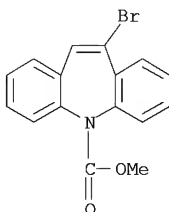
CN 5H-Dibenz[b,f]azepine, 10-methoxy- (CA INDEX NAME)



10/598,623

RN 866874-00-2 CAPLUS

CN 5H-Dibenz[b,f]azepine-5-carboxylic acid, 10-bromo-, methyl ester (CA INDEX NAME)



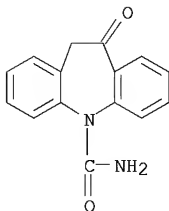
IT 28721-07-5P

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(preparation of 10,11-dihydro-10-oxo-5H-dibenz[b,f]azepine-5-carboxamide)

RN 28721-07-5 CAPLUS

CN 5H-Dibenz[b,f]azepine-5-carboxamide, 10,11-dihydro-10-oxo- (CA INDEX NAME)

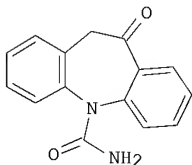


OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

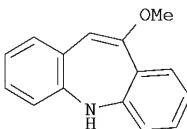
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L62 ANSWER 11 OF 46 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 2005:1075777 CAPLUS
 DOCUMENT NUMBER: 143:367224
 TITLE: Process for preparing oxcarbazepine via
 chlorocarbonylation with triphosgene
 INVENTOR(S): Banfi, Aldo; Bollini, Deborah; Serra, Maurizio; Di
 Lernia, Gianluca
 PATENT ASSIGNEE(S): Clariant International Ltd., Switz.
 SOURCE: PCT Int. Appl., 14 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005092862	A1	20051006	WO 2005-IB452	20050221
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
IT 2004MI0452	A1	20040609	IT 2004-MI452	20040309
IT 1355200	B1	20090220		
EP 1758867	A1	20070307	EP 2005-708576	20050221
EP 1758867	B1	20100929		
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
JP 2007528385	T	20071011	JP 2007-502423	20050221
AT 482935	T	20101015	AT 2005-708576	20050221
IL 175620	A	20101031	IL 2005-175620	20050221
US 20070149507	A1	20070628	US 2006-580145	20060518
US 7858779	B2	20101228		
KR 2007031280	A	20070319	KR 2006-7018221	20060907
PRIORITY APPLN. INFO.:			IT 2004-MI452	A 20040309
			WO 2005-IB452	W 20050221
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT				
OTHER SOURCE(S):				
GI				



I



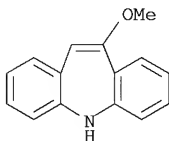
II

AB Process for preparing oxcarbazepine (I) via chlorocarbonylation of 10-methoxydibenzazepine precursor II with triphosgene as the chlorocarbonylating agent. Subsequent ammonolysis and final hydrolysis gave oxcarbazepine.

IT 4698-11-7, 10-Methoxy-5H-dibenz[b,f]azepine
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (process for preparing oxcarbazepine via chlorocarbonylation with triphosgene)

RN 4698-11-7 CAPLUS

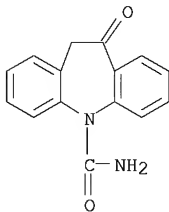
CN 5H-Dibenz[b,f]azepine, 10-methoxy- (CA INDEX NAME)



IT 28721-07-5P, Oxcarbazepine
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (process for preparing oxcarbazepine via chlorocarbonylation with triphosgene)

RN 28721-07-5 CAPLUS

CN 5H-Dibenz[b,f]azepine-5-carboxamide, 10,11-dihydro-10-oxo- (CA INDEX NAME)

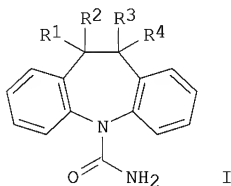


OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L62 ANSWER 12 OF 46 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 2005:1004404 CAPLUS
 DOCUMENT NUMBER: 143:306203
 TITLE: Preparation of 5H-dibenz[b,f]azepinecarboxamides
 INVENTOR(S): Sivakumar, Bobba Venkata; Bhirud, Shekhar Bhaskar;
 Batchu, Chandrasekhar; Kale, Sanjay Anantha
 PATENT ASSIGNEE(S): Glenmark Generics Ltd., India
 SOURCE: U.S. Pat. Appl. Publ., 9 pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20050203297	A1	20050915	US 2005-77723	20050311
US 7459553	B2	20081202		
IN 2004MU00314	A	20060728	IN 2004-MU314	20040312
PRIORITY APPLN. INFO.:			US 2004-552146P	P 20040311
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT				
OTHER SOURCE(S):	CASREACT 143:306203; MARPAT 143:306203			
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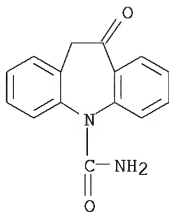


AB The title compds. I [R1, R2, R3, R4 = H, halo, NO2, cyano, CO2H, COR, OCOR, OR, NR2, CONR2, CO2R, R = C1-C10-alkyl, C3-C10-cycloalkyl, C2-C10-alkenyl, C5-C10-cycloalkenyl, C2-C10-alkynyl, C6-C20 aryl; R2 = bond] were prepared For example, 10-methoxyiminostilbene reacted with maleic acid/NaOCN followed by HCl to give oxacarbazepine, I (R1R2 = O, R3 = R4 = H).

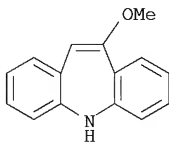
IT 28721-07-5P, Oxacarbazepine
 RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
 (preparation of 5H-dibenz[b,f]azepinecarboxamides)

RN 28721-07-5 CAPLUS

CN 5H-Dibenz[b,f]azepine-5-carboxamide, 10,11-dihydro-10-oxo- (CA INDEX NAME)



IT 4698-11-7
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of 5H-dibenz[b,f]azepinecarboxamides)
 RN 4698-11-7 CAPLUS
 CN 5H-Dibenz[b,f]azepine, 10-methoxy- (CA INDEX NAME)



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD
 (2 CITINGS)
 REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L62 ANSWER 13 OF 46 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2005:638851 CAPLUS

DOCUMENT NUMBER: 143:153307

TITLE: Novel process for preparation of
 10-oxo-10,11-dihydro-5H-dibenz[b,f]azepine-5-
 carboxamide (oxcarbazepine) via intermediate,
 10-methoxy-5H-dibenz[b,f]azepine-5-carbonyl chloride
 Parenky, Chandrashekar; Chaturvedi, Rohit

INVENTOR(S):

PATENT ASSIGNEE(S): Amoli Organics Ltd., India

SOURCE: PCT Int. Appl., 12 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005066133	A2	20050721	WO 2004-IN322	20041015
WO 2005066133	A3	20051006		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
IN 2003MU01108	A	20050610	IN 2003-MU1108	20031020
EP 1678140	A2	20060712	EP 2004-820974	20041015
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK			
US 20070032647	A1	20070208	US 2006-576546	20060420
PRIORITY APPLN. INFO.:			IN 2003-MU1108	A 20031020
			WO 2004-IN322	W 20041015

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): CASREACT 143:153307

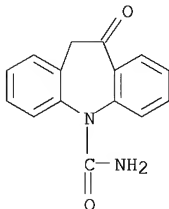
AB Novel process for preparation of 10-oxo-10,11-dihydro-5H-dibenz[b,f]azepine-5-carboxamide (oxcarbazepine), known anticonvulsant drug, comprising the steps: (a) reacting 10-methoxy-5H-dibenz[b,f]azepine with bis(trichloromethyl) carbonate (BTC) and organic base such as aliphatic or aromatic tertiary amines in organic solvent, (b) conversion of the intermediate acid chloride to 10-methoxy-5H-dibenz[b,f]azepine-5-carboxamide using ammonia in organic solvent, (c) treating the intermediate with Lewis acid in an organic solvent at a temperature between 25°C to 80°C, preferably at 50°C to 70°C, and (d) isolating oxcarbazepine. The main objective of the invention was to provide a cost effective, safe and high yielding process for the production of 10-methoxy-5H-dibenz[b,f]azepine-5-carbonyl chloride from 10-methoxy-5H-dibenz[b,f]azepine without the use of phosgene gas.

IT 28721-07-5P, Oxcarbazepine
 RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(preparation of 10-oxo-10,11-dihydro-5H-dibenz[b,f]azepine-5-carboxamide (oxcarbazepine) via 10-methoxy-5H-dibenz[b,f]azepine-5-carbonyl chloride)

RN 28721-07-5 CAPLUS

CN 5H-Dibenz[b,f]azepine-5-carboxamide, 10,11-dihydro-10-oxo- (CA INDEX NAME)



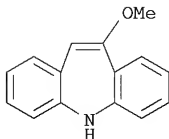
IT 4698-11-7, 10-Methoxy-5H-dibenz[b,f]azepine

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of 10-oxo-10,11-dihydro-5H-dibenz[b,f]azepine-5-carboxamide (oxcarbazepine) via 10-methoxy-5H-dibenz[b,f]azepine-5-carbonyl chloride)

RN 4698-11-7 CAPLUS

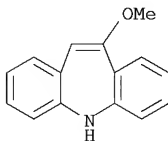
CN 5H-Dibenz[b,f]azepine, 10-methoxy- (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

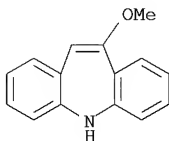
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L62 ANSWER 14 OF 46 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2005:474386 CAPLUS
DOCUMENT NUMBER: 143:413800
TITLE: 10-Methoxydibenz[b,f]azepine-5-carboxamide
AUTHOR(S): Nagaraj, Basavegowda; Yathirajan, Hemmige S.;
Narasegowda, Rajenahally S.; Nagaraja, Padmarajaiah;
Lynch, Daniel E.
CORPORATE SOURCE: Department of Studies in Chemistry, University of
Mysore, Mysore, 570 006, India
SOURCE: Acta Crystallographica, Section E: Structure Reports
Online (2005), E61(6), o1760-o1761
CODEN: ACSEBH; ISSN: 1600-5368
URL: <http://journals.iucr.org/e/issues/2005/06/00/nc6031/index.html>
PUBLISHER: Blackwell Publishing Ltd.
DOCUMENT TYPE: Journal; (online computer file)
LANGUAGE: English
AB The structure of the title compound, C₁₆H₁₄N₂O₂, contains a seven-membered ring that adopts a boat conformation, and the overall mol. shape is that of a butterfly. In the packing, the mols. form a convoluted H-bonded polymer via a typical R22(8) graph-set dimer, between carboxamide groups, and an R22(16) graph-set dimer formed through an interaction between the 2nd carboxamide NH group and an adjacent methoxy O atom (in each mol.). The dihedral angle between the benzene rings is 56.09(5)°. Crystallog. data are given.
IT 4698-11-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of methoxydibenzazepine with sodium cyanate in presence of monochloroacetic acid in toluene)
RN 4698-11-7 CAPLUS
CN 5H-Dibenz[b,f]azepine, 10-methoxy- (CA INDEX NAME)



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L62 ANSWER 15 OF 46 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2005:474383 CAPLUS
DOCUMENT NUMBER: 143:413799
TITLE: 10-Methoxy-5H-dibenz[b,f]azepine
AUTHOR(S): Nagaraj, Basavegowda; Yathirajan, Hemmige S.; Lynch, Daniel E.
CORPORATE SOURCE: Department of Studies in Chemistry, University of Mysore, Mysore, 570 006, India
SOURCE: Acta Crystallographica, Section E: Structure Reports Online (2005), E61(6), o1757-o1759
CODEN: ACSEBH; ISSN: 1600-5368
URL: <http://journals.iucr.org/e/issues/2005/06/00/bh6006/index.html>
PUBLISHER: Blackwell Publishing Ltd.
DOCUMENT TYPE: Journal; (online computer file)
LANGUAGE: English
AB The structure of the title compound, C₁₅H₁₃NO, has six independent mols. in the asym. unit; in each case, the seven-membered ring adopts a boat conformation and the overall mol. shape is that of a butterfly. All mols. display N-H...C=C close contacts, instead of N-H...O interactions. The intramol. dihedral angles between the benzene rings are within the range 43.7(1)-46.4(1)° for the six mols. Crystallog. data are given.
IT 4698-11-7P, 10-Methoxy-5H-dibenz[b,f]azepine
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (preparation and crystal structure of)
RN 4698-11-7 CAPLUS
CN 5H-Dibenz[b,f]azepine, 10-methoxy- (CA INDEX NAME)



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)
REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L62 ANSWER 16 OF 46 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2005:289573 CAPLUS

DOCUMENT NUMBER: 143:9480

TITLE: A New Industrial Process for Oxcarbazepine

AUTHOR(S): Fuenfschilling, Peter C.; Zaugg, Werner; Beutler, Ulrich; Kaufmann, Daniel; Lohse, Olivier; Mutz, Jean-Paul; Onken, Ulrich; Reber, Jean-Louis; Shenton, David

CORPORATE SOURCE: Chemical and Analytical Development, Novartis Pharma AG, Basel, CH-4002, Switz.

SOURCE: Organic Process Research & Development (2005), 9(3), 272-277

CODEN: OPRDFK; ISSN: 1083-6160

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 143:9480

AB A novel industrial process for the antiepileptic drug oxcarbazepine 1 has been developed. Unlike the old process, the new process is free from halogenated solvents and can be performed in standard production equipment. It starts from com. available 1,3-dihydro-1-phenyl-2H-indol-2-one 10. In the key step, an electrophilic ring closure reaction of 2-[(methoxycarbonyl)phenylamino]benzeneacetic acid 5 to 10,11-dihydro-10-oxo-5H-dibenz[b,f]azepine-5-carboxylic acid Me ester 6 in polyphosphoric acid was applied. For the manufacture of 5, a highly efficient process using a dianion strategy was developed.

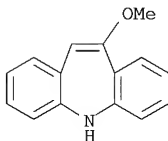
IT 4698-11-7P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; new industrial process for preparation of antiepileptic drug oxcarbazepine)

RN 4698-11-7 CAPLUS

CN 5H-Dibenz[b,f]azepine, 10-methoxy- (CA INDEX NAME)



IT 28721-07-5P, Oxcarbazepine

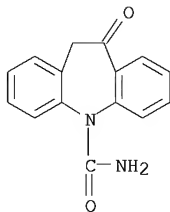
RL: IMF (Industrial manufacture); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(new industrial process for preparation of antiepileptic drug oxcarbazepine)

RN 28721-07-5 CAPLUS

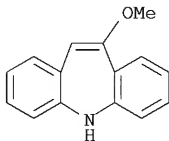
CN 5H-Dibenz[b,f]azepine-5-carboxamide, 10,11-dihydro-10-oxo- (CA INDEX NAME)

10/598,623

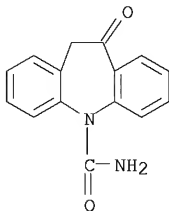


OS.CITING REF COUNT:	7	THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)
REFERENCE COUNT:	9	THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

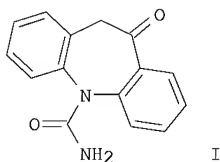
L62 ANSWER 17 OF 46 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 2004:706975 CAPLUS
 DOCUMENT NUMBER: 142:280039
 TITLE: A new synthesis of oxcarbazepine using a
 Friedel-Crafts cyclization strategy. [Erratum to
 document cited in CA141:157022]
 AUTHOR(S): Kaufmann, Daniel; Fuenfschilling, Peter C.; Beutler,
 Ulrich; Hoehn, Pascale; Lohse, Olivier; Zaugg, Werner
 CORPORATE SOURCE: Chemical and Analytical Development, Novartis Pharma
 AG, Basel, CH-4002, Switz.
 SOURCE: Tetrahedron Letters (2004), 45(38), 7171
 CODEN: TELEAY; ISSN: 0040-4039
 PUBLISHER: Elsevier B.V.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The corrected version of Section 4 "Completion of the synthesis of 1" is given.
 IT 4698-11-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation of oxcarbazepine via enolization of
 N-(oxycarbonyl)dibenzazepinones followed by hydrolysis, acylation, and
 hydrolysis (Erratum))
 RN 4698-11-7 CAPLUS
 CN 5H-Dibenz[b,f]azepine, 10-methoxy- (CA INDEX NAME)



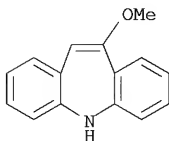
IT 28721-07-5P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of oxcarbazepine via hydrolysis of
 N-(oxycarbonyl)dibenzazepinones followed by acylation (Erratum))
 RN 28721-07-5 CAPLUS
 CN 5H-Dibenz[b,f]azepine-5-carboxamide, 10,11-dihydro-10-oxo- (CA INDEX
 NAME)



L62 ANSWER 18 OF 46 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 2004:479517 CAPLUS
 DOCUMENT NUMBER: 141:157022
 TITLE: A new synthesis of oxcarbazepine using a
 Friedel-Crafts cyclization strategy
 AUTHOR(S): Kaufmann, Daniel; Fuenfschilling, Peter C.; Beutler,
 Ulrich; Hoehn, Pascale; Lohse, Olivier; Zaugg, Werner
 CORPORATE SOURCE: Chemical and Analytical Development, Novartis Pharma
 AG, Basel, CH-4002, Switz.
 SOURCE: Tetrahedron Letters (2004), 45(27), 5275-5278
 CODEN: TELEAY; ISSN: 0040-4039
 PUBLISHER: Elsevier
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 141:157022
 GI



- AB A simple and straightforward process for the large-scale synthesis of oxcarbazepine (I), the active ingredient of Trileptal, a medicine for the treatment of epilepsy, has been developed. Starting from readily available 1,3-dihydro-1-phenyl-2H-indol-2-one, a Friedel-Crafts cyclization strategy provides a direct route to the tricyclic framework of the target mol. Crucial to the success of the strategy was the choice of the proper nitrogen-protecting group.
- IT 4698-11-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of oxcarbazepine via enolization of
 N-(oxycarbonyl)dibenzazepinones followed by hydrolysis, acylation, and
 hydrolysis)
- RN 4698-11-7 CAPLUS
 CN 5H-Dibenz[b,f]azepine, 10-methoxy- (CA INDEX NAME)



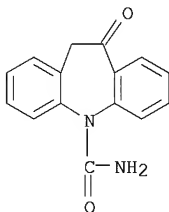
- IT 28721-07-5P
 RL: SPN (Synthetic preparation); PREP (Preparation)

10/598,623

(preparation of oxcarbazepine via hydrolysis of
N-(oxycarbonyl)dibenzazepinones followed by acylation)

RN 28721-07-5 CAPLUS

CN 5H-Dibenz[b,f]azepine-5-carboxamide, 10,11-dihydro-10-oxo- (CA INDEX
NAME)



OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD
(5 CITINGS)
REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L62 ANSWER 19 OF 46 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2004:58537 CAPLUS

DOCUMENT NUMBER: 140:253549

TITLE: Substituent-dependent reactivity in the photodimerization of N-substituted dibenz[b,f]azepines
 AUTHOR(S): Querner, Jens; Wolff, Thomas; Goerner, Helmut
 CORPORATE SOURCE: Institut fuer Physikalische Chemie und Elektrochemie der Technischen Universitaet Dresden, Dresden, 01062, Germany

SOURCE: Chemistry--A European Journal (2004), 10 (1), 283-293

CODEN: CEUJED; ISSN: 0947-6539

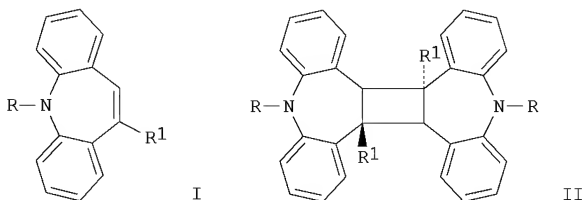
PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 140:253549

GI



AB The photoprocesses of a series of N-substituted dibenz[b,f]azepines (iminostilbenes) (I; R = H, Me, ET, CN, CH₂Ph, acetyl, naphthalenyl, CONH₂, COCl, etc.; R₁ = H, OMe, Br, CN, 1-piperidinyl), were studied by absorption and emission spectroscopy, by laser flash photolysis, and by preparative irradiation with NMR anal. In solns., 2 π +2 π photodimers of N-cyano and N-acyl dibenzazepines II (R = CN, CHO, acetyl, 1-oxopropyl, PhCO, naphthalenylcarbonyl, trifluoroacetyl, COCl, CONH₂, 4-benzoylphenyl; R₁ = H) are formed via the triplet state upon acetone- or benzophenone-sensitized energy transfer. Triplet-triplet absorption spectra were measured and absorption coeffs. were determined. The triplet energy transfer is equally efficient for N-alkyl dibenzazepines, which do not dimerize. Excited states of n π * character in the latter cases are discussed to rationalize the different reactivities. In spite of negligible intersystem crossing of 21 dibenzazepine derivs., photodimers of N-acyl and N-cyano dibenzazepines are formed upon direct excitation in concentrated solns. (0.01-0.1 mol dm⁻³) as well as in the solid state. A selective anti-configuration of the photodimers was found throughout.

IT 4698-11-7, 10-Methoxy-5H-dibenz[b,f]azepine

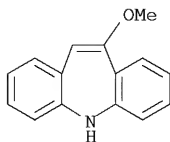
RL: PRP (Properties)

(study of triplet energy transfer, intersystem crossing and effect of substituent-dependent reactivity of dibenz[b,f]azepine derivs.)

RN 4698-11-7 CAPLUS

CN 5H-Dibenz[b,f]azepine, 10-methoxy- (CA INDEX NAME)

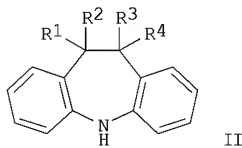
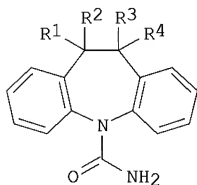
10/598,623



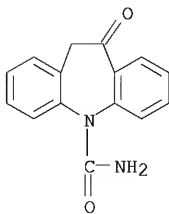
OS.CITING REF COUNT:	3	THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)
REFERENCE COUNT:	34	THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L62 ANSWER 20 OF 46 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 2003:1006946 CAPLUS
 DOCUMENT NUMBER: 140:42043
 TITLE: Method of preparing a
 5H-dibenz[b,f]azepine-5-carboxamide
 Gutman, Daniella; Baidossi, Wael
 INVENTOR(S):
 PATENT ASSIGNEE(S): Taro Pharmaceuticals U.S.A., Inc., USA
 SOURCE: PCT Int. Appl., 27 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

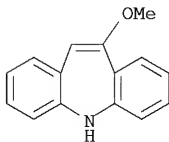
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003106414	A2	20031224	WO 2003-US18823	20030613
WO 2003106414	A3	20040701		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
CA 2486560	A1	20031224	CA 2003-2486560	20030613
AU 2003240009	A1	20031231	AU 2003-240009	20030613
US 20040044200	A1	20040304	US 2003-460946	20030613
US 7091339	B2	20060815		
EP 1513816	A2	20050316	EP 2003-734588	20030613
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
IL 165694	A	20091224	IL 2003-165694	20030613
US 20060241292	A1	20061026	US 2006-427503	20060629
US 7723514	B2	20100525		
PRIORITY APPLN. INFO.:			US 2002-388811P	P 20020614
			US 2003-460946	A1 20030613
			WO 2003-US18823	W 20030613
OTHER SOURCE(S):	CASREACT 140:42043; MARPAT 140:42043			
GI				



- AB The present invention provides a method of preparing a 5H-dibenz[b,f]azepine-5-carboxamide I [R1-R4 = H, halo, NO2, CN, etc.; R2 and R3 can together form a bond] comprising reacting a 5H-dibenz[b,f]azepine II with a cyanate salt selected from the group consisting of alkali metal cyanate salts and alkaline-earth metal cyanate salts, and a salt of an amino compound having no N-H bonds, wherein the salt has a K_a (25° C) of at least about 10×10^{-11} . Thus, reacting 10-methoxy-5H-dibenz[b,f]azepine with NaOCN and pyridinium bromide in PhMe followed by hydrolysis of the resulting enol ether with 10% HCl afforded 10-oxo-10,11-dihydro-5H-dibenz[b,f]azepine-5-carboxamide (oxcarbazepine) which is known to control some types of seizures in the treatment of epilepsy (no biol. data given). Preparation of carbamazepine is also described.
- IT 28721-07-5P, Oxcarbazepine
 RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
 (method of preparing a 5H-dibenz[b,f]azepine-5-carboxamide)
- RN 28721-07-5 CAPLUS
- CN 5H-Dibenz[b,f]azepine-5-carboxamide, 10,11-dihydro-10-oxo- (CA INDEX NAME)



- IT 4698-11-7, 10-Methoxy-5H-dibenz[b,f]azepine
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (method of preparing a 5H-dibenz[b,f]azepine-5-carboxamide)
- RN 4698-11-7 CAPLUS
- CN 5H-Dibenz[b,f]azepine, 10-methoxy- (CA INDEX NAME)



- OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)
- REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L62 ANSWER 21 OF 46 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2003:297637 CAPLUS

DOCUMENT NUMBER: 138:304176

TITLE: Process for preparation of 10-methoxycarbamazepine by reaction of 10-methoxyiminostilbene with cyanic acid in the presence of weak acid.

INVENTOR(S): Ansari, Shahid Akhtar; Bhat, Ravindra; Kulkarni, Ashok Krishna

PATENT ASSIGNEE(S): Max India Limited, India

SOURCE: Eur. Pat. Appl., 12 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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EP 1302464	A1	20030416	EP 2002-257007	20021009
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
CA 2407173	A1	20030409	CA 2002-2407173	20021009
CA 2407173	C	20090929		
US 20030105076	A1	20030605	US 2002-269084	20021009
US 6670472	B2	20031230		

PRIORITY APPLN. INFO.: EP 2001-308631 A 20011009

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): CASREACT 138:304176

AB Title process is claimed. Also disclosed is an improved method for the hydrolysis of 10-methoxycarbamazepine to oxcarbazepine in a biphasic system chosen such that the oxcarbazepine is substantially insol. in both phases, whereas the byproducts or impurities are soluble in ≥ 1 of the phases. Thus, 10-methoxyiminostilbene, PhCO_2H , and NaOCN were refluxed together in PhMe for 12 h. The reaction mixture was filtered, washed with aqueous Na_2CO_3 , and the PhMe layer was heated with 2N HCl at $75-80^\circ$ for 2 h followed by cooling to give oxcarbazepine of 99.45% purity.

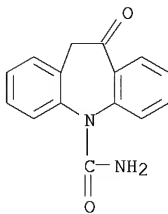
IT 28721-07-5P, Oxcarbazepine

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(preparation of 10-methoxycarbamazepine by reaction of 10-methoxyiminostilbene with cyanic acid in the presence of weak acid)

RN 28721-07-5 CAPLUS

CN 5H-Dibenz[b,f]azepine-5-carboxamide, 10,11-dihydro-10-oxo- (CA INDEX NAME)



10/598,623

IT 4698-11-7

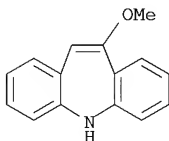
RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of 10-methoxycarbamazepine by reaction of

10-methoxyiminostilbene with cyanic acid in the presence of weak acid)

RN 4698-11-7 CAPLUS

CN 5H-Dibenz[b,f]azepine, 10-methoxy- (CA INDEX NAME)



OS.CITING REF COUNT:	4	THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)
REFERENCE COUNT:	2	THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L62 ANSWER 22 OF 46 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2002:655370 CAPLUS

DOCUMENT NUMBER: 137:154864

TITLE: Process for the preparation of
10-oxo-10,11-dihydro-5H-dibenz[b,f]azepine-5-
carboxamide

INVENTOR(S): Ferrario, Gianluigi

PATENT ASSIGNEE(S): Inland International Limited, Virgin I. (Brit.)

SOURCE: Ital. Appl., 13 pp.

CODEN: ITXXCZ

DOCUMENT TYPE: Patent

LANGUAGE: Italian

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
IT 2000MI0311	A1	20010822	IT 2000-MI311	20000222
IT 1318371	B1	20030825		

PRIORITY APPLN. INFO.: IT 2000-MI311 20000222

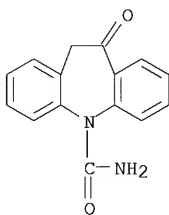
OTHER SOURCE(S): CASREACT 137:154864

AB 10-Oxo-10,11-dihydro-5H-dibenz[b,f]azepine-5-carboxamide was prepared by treatment of 10-methoxy-5H-dibenz[b,f]azepine (I) with an alkali or alkaline-earth metal cyanate in the presence of acid, followed by hydrolysis using an organic acid. Thus, a toluene solution of 22.2 g I was treated with 8.92 g KNCN and 96% H₂SO₄ and heated at 40-50°C for 24 h. The organic phase was treated with 50% aqueous AcOH at reflux for 8 h to afford 15.4 g the title compound

IT 28721-07-5P
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(preparation of oxodihydrodibenz[b,f]azepinecarboxamide)

RN 28721-07-5 CAPLUS

CN 5H-Dibenz[b,f]azepine-5-carboxamide, 10,11-dihydro-10-oxo- (CA INDEX NAME)



IT 4698-11-7

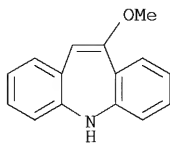
RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of oxodihydrodibenz[b,f]azepinecarboxamide)

RN 4698-11-7 CAPLUS

CN 5H-Dibenz[b,f]azepine, 10-methoxy- (CA INDEX NAME)

10/598,623



L62 ANSWER 23 OF 46 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 2002:655362 CAPLUS
 DOCUMENT NUMBER: 137:154863
 TITLE: Process for the preparation of
 5-methoxy-5H-dibenz[b,f]azepine
 INVENTOR(S): Finotto, Martino
 PATENT ASSIGNEE(S): Italy
 SOURCE: Ital. Appl., 7 pp.
 CODEN: ITXXCZ
 DOCUMENT TYPE: Patent
 LANGUAGE: Italian
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
IT 99MI2022	A1	20010329	IT 1999-MI2022	19990929
PRIORITY APPLN. INFO.:			IT 1999-MI2022	19990929

OTHER SOURCE(S): CASREACT 137:154863

AB 5-Methoxy-5H-dibenz[b,f]azepine was prepared by treatment of
 5-(chlorocarbonyl)-5H-dibenz[b,f]azepine (I) with chlorine or bromine at
 -30 to +10°C and then with NaOMe or NaOH at 70-100°C. Thus,
 treatment of 0.1 mol I in CH₂Cl₂ with 0.11 mol Cl₂ for 1 h at 0°C,
 addition of NaOH/MeOH (2.02 mol in 250 mL), distilling, and heating at reflux

for

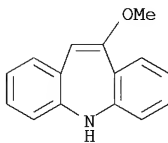
24 h afforded 92% the title compound

IT 4698-11-7P

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP
 (Preparation)
 (preparation of methoxydibenz[b,f]azepine)

RN 4698-11-7 CAPLUS

CN 5H-Dibenz[b,f]azepine, 10-methoxy- (CA INDEX NAME)



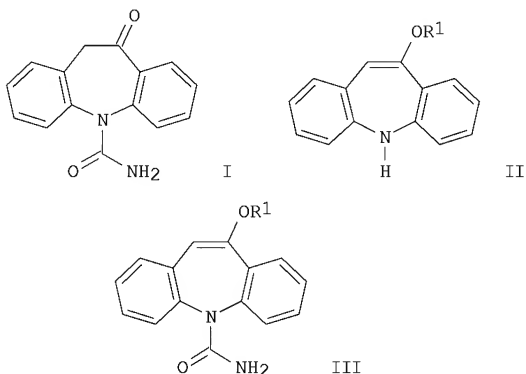
L62 ANSWER 24 OF 46 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 2001:581847 CAPLUS
 DOCUMENT NUMBER: 135:166785
 TITLE: Preparation of dibenzo[b,f]azepine derivatives
 INVENTOR(S): Fuenfschilling, Peter; Kaufmann, Daniel; Lohse,
 Olivier; Beutler, Ulrich; Zaugg, Werner
 PATENT ASSIGNEE(S): Novartis A.-G., Switz.; Novartis-Erfindungen
 Verwaltungsgesellschaft m.b.H.
 SOURCE: PCT Int. Appl., 15 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001056992	A2	20010809	WO 2001-EP1330	20010207
WO 2001056992	A3	20020124		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
CA 2395601	A1	20010809	CA 2001-2395601	20010207
CA 2395601	C	20100105		
CA 2639210	A1	20010809	CA 2001-2639210	20010207
CA 2724295	A1	20010809	CA 2001-2724295	20010207
BR 2001007922	A	20021022	BR 2001-7922	20010207
TR 2002001655	T2	20021121	TR 2002-1655	20010207
EP 1265868	A2	20021218	EP 2001-915203	20010207
EP 1265868	B1	20090408		
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
HU 2003000243	A2	20030628	HU 2003-243	20010207
HU 2003000243	A3	20050728		
JP 2003521536	T	20030715	JP 2001-556842	20010207
AU 767724	B2	20031120	AU 2001-42373	20010207
NZ 520329	A	20031128	NZ 2001-520329	20010207
CN 1721409	A	20060118	CN 2005-10085302	20010207
CN 100455572	C	20090128		
CN 1244563	C	20060308	CN 2001-803530	20010207
RU 2303591	C2	20070727	RU 2002-123334	20010207
AT 427938	T	20090415	AT 2001-915203	20010207
EP 2067772	A2	20090610	EP 2009-153375	20010207
EP 2067772	A3	20090819		
R:	AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE, TR, RO, SI			
PT 1265868	E	20090715	PT 2001-915203	20010207
ES 2324900	T3	20090819	ES 2001-915203	20010207
KR 2009102882	A	20090930	KR 2009-7019039	20010207
KR 966209	B1	20100625		
KR 2010018069	A	20100216	KR 2010-7000738	20010207

SK 287217	B6	20100308	SK 2002-1126	20010207
CZ 301572	B6	20100421	CZ 2002-2676	20010207
IL 150613	A	20100517	IL 2001-150613	20010207
TW 284638	B	20070801	TW 2001-102908	20010209
NO 2002003575	A	20020726	NO 2002-3575	20020726
NO 324949	B1	20080114		
US 20030032800	A1	20030213	US 2002-182980	20020802
US 7112673	B2	20060926		
ZA 2002006219	A	20030404	ZA 2002-6219	20020805
IN 224852	A1	20081205	IN 2002-CN1205	20020806
MX 2002007629	A	20021213	MX 2002-7629	20020807
HK 1052501	A1	20090814	HK 2003-103369	20030513
PH 1200700298	A	20090427	PH 2007-1200700298	20070731
IN 2007CN03402	A	20071116	IN 2007-CN3402	20070803
KR 2008003016	A	20080104	KR 2007-7029687	20071220
KR 931753	B1	20091214		
KR 2008103608	A	20081127	KR 2008-7027467	20081110
PRIORITY APPLN. INFO.:			GB 2000-2740	A 20000207
			CA 2001-2395601	A3 20010207
			CA 2001-2639210	A3 20010207
			CN 2001-803530	A3 20010207
			EP 2001-915203	A3 20010207
			KR 2002-7010123	A3 20010207
			WO 2001-EP1330	W 20010207
			KR 2007-7029687	A3 20071220
			KR 2008-7027467	A3 20081110

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): CASREACT 135:166785; MARPAT 135:166785

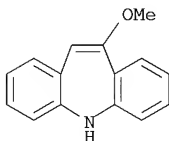
GI



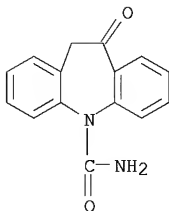
AB The invention relates to new processes for the preparation of the pharmaceutical oxcarbazepine I, as well as novel intermediates prepared by or used for said processes, and the preparation of said intermediates. Thus, carbamoylation of II [R1 = alkyl] (preparation given for R1 = Me) with a metal cyanate in AcOH followed by hydrolysis of III affords the

10/598,623

dibenzo[b,f]azepine I.
IT 4698-11-7P
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of dibenzo[b,f]azepine derivs.)
RN 4698-11-7 CAPLUS
CN 5H-Dibenz[b,f]azepine, 10-methoxy- (CA INDEX NAME)



IT 28721-07-5P
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(preparation of dibenzo[b,f]azepine derivs.)
RN 28721-07-5 CAPLUS
CN 5H-Dibenz[b,f]azepine-5-carboxamide, 10,11-dihydro-10-oxo- (CA INDEX NAME)



OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L62 ANSWER 25 OF 46 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2001:47292 CAPLUS

DOCUMENT NUMBER: 134:266193

TITLE: New synthesis of oxcarbazepine via remote metalation of protected N-(ortho-tolyl)anthranilamide derivatives
 AUTHOR(S): Lohse, O.; Beutler, U.; Funfschilling, P.; Furet, P.; France, J.; Kaufmann, D.; Penn, G.; Zaugg, W.

CORPORATE SOURCE: Novartis Pharma AG, Chemical and Analytical Development, Basel, CH-4002, Switz.

SOURCE: Tetrahedron Letters (2001), 42(3), 385-389

CODEN: TELEAY; ISSN: 0040-4039

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 134:266193

AB Benzyl- and allyl-protected N-tol-2-ylanthranilamides were efficiently prepared by Buchwald-Hartwig C-N cross coupling reactions, followed by protection of the amino group. Under directed remote metalation conditions, protected dibenzoazepinones were obtained in good yields. Deprotection of the amine and conversion to an urea furnished a new and efficient synthesis of the antiepileptic drug Trileptal.

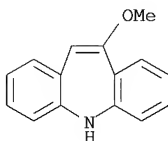
IT 4698-11-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of oxcarbazepine via remote metalation of protected N-tolylanthranilamides)

RN 4698-11-7 CAPLUS

CN 5H-Dibenz[b,f]azepine, 10-methoxy- (CA INDEX NAME)



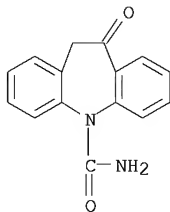
IT 28721-07-5P, Oxcarbazepine

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of oxcarbazepine via remote metalation of protected N-tolylanthranilamides)

RN 28721-07-5 CAPLUS

CN 5H-Dibenz[b,f]azepine-5-carboxamide, 10,11-dihydro-10-oxo- (CA INDEX NAME)



OS.CITING REF COUNT:	22	THERE ARE 22 CAPLUS RECORDS THAT CITE THIS RECORD (23 CITINGS)
REFERENCE COUNT:	21	THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L62 ANSWER 26 OF 46 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2001:31490 CAPLUS

DOCUMENT NUMBER: 134:100776

TITLE: Preparation of 5H-dibenz[b,f]azepines for pharmaceutical use as selective M2 muscarinic receptor antagonists

INVENTOR(S): Terni, Patrizia Maria Luisa; Mandelli, Giacomina

Roberta; Maiorana, Stefano; Imbimbo, Bruno Pietro

PATENT ASSIGNEE(S): Mediolanum Farmaceutici S.p.A., Italy

SOURCE: PCT Int. Appl., 48 pp.

CODEN: PIXXD2

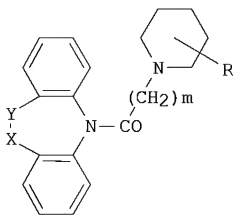
DOCUMENT TYPE: Patent

LANGUAGE: English

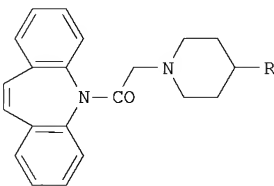
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2001002386	A1	20010111	WO 2000-EP6020	20000628
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
IT 99MI1452	A1	20010102	IT 1999-MI1452	19990701
PRIORITY APPLN. INFO.:			IT 1999-MI1452	A 19990701
OTHER SOURCE(S):	MARPAT 134:100776			
GI				



I



II

AB 5H-dibenzo[b,f]azepines, such as I [R = (CH₂)_nNR₁R₂; R₁ = H, Ph, benzyl, phenethyl, alkyl, etc.; R₂ = Ph, benzyl, phenethyl, alkyl, etc.; XY = CH₂-CH₂, CH=CH, CH=CR₃; R₃ = OH, OPh, alkoxy; n, m = 1 - 10], were prepared for use as selective M2 muscarinic receptor antagonists and can be used in the treatment of cardiovascular disorders, particularly bradycardias and bradyarrhythmias and in the treatment of cognitive disorders such as Alzheimer's disease. Thus, 5H-dibenzo[b,f]azepine II [R = (CH₂)₄NEt₂] was prepared via a multistep synthetic sequence starting from 1-benzyl-4-piperidone, tri-Et 4-phosphonocrotonate, and

5-(chloroacetyl)-5H-dibenz[b,f]azepine. The prepared 5H-dibenzo[b,f]azepines were tested for muscarinic receptor binding affinity and were found to have selectivity for the M2 receptor.

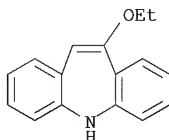
IT 4614-46-4 4698-11-7

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of 5H-dibenz[b,f]azepines for pharmaceutical use as selective M2 muscarinic receptor antagonists)

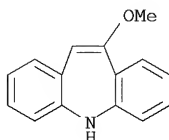
RN 4614-46-4 CAPLUS

CN 5H-Dibenz[b,f]azepine, 10-ethoxy- (CA INDEX NAME)



RN 4698-11-7 CAPLUS

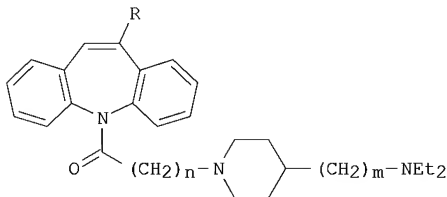
CN 5H-Dibenz[b,f]azepine, 10-methoxy- (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L62 ANSWER 27 OF 46 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 2000:788179 CAPLUS
 DOCUMENT NUMBER: 134:86143
 TITLE: Synthesis of new cardioselective M2 muscarinic
 receptor antagonists
 AUTHOR(S): Mandelli, Giacomina R.; Maiorana, Stefano; Terni,
 Patrizia; Lamperti, Giuseppina; Colibretti, Maria
 Luisa; Imbimbo, Bruno P.
 CORPORATE SOURCE: Research and Development Department, Mediolanum
 Farmaceutici, Milan, 20143, Italy
 SOURCE: Chemical & Pharmaceutical Bulletin (2000), 48(11),
 1611-1622
 CODEN: CPBTAL; ISSN: 0009-2363
 PUBLISHER: Pharmaceutical Society of Japan
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 134:86143
 GI



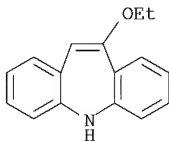
- AB A series of 5H-dibenz[b,f]azepines, e.g. I (R = H, MeO, EtO, BuO, PhO; n = 1, 5, 9; m = 2, 4, 7), was prepared and evaluated for binding affinities to muscarinic receptors in vitro. Among them, compound I (R = H; n = 1; m = 4) (II) showed a high affinity for human recombinant M2 receptors ($K_i=2.6$ nM), a low affinity for M4 receptors (39-fold less than for M2 receptors) and a very low affinity for M1 and M3 receptors (119- and 112-fold less than for M2 receptors, resp.). This high M2 selectivity may be attributed to the olefinic bond of the azepine ring. Functional expts. showed II to be a competitive antagonist with high affinity to the cardiac ($pA_2=7.1$) and low affinity to the intestinal muscarinic receptors ($IC_{50}=0.54$ μ M). In vivo expts. confirmed the in vitro M2 selectivity of II. Acetylcholine-induced bradycardia was dose-dependently antagonized in rats after both i.v. and intraduodenal administration of II. In rats, cholinergic functions mediated by M1 or M3 receptors (salivary secretion, pupil diameter, gastric emptying, intestinal transit time) were not affected by the oral administration of II even at doses as high as 30 times the antibradycardic ED. Furthermore, II had no analgesic activity in mice, indicating poor central nervous system penetration. In dogs, nocturnal bradycardia was dose-dependently inhibited by the oral route with a duration of action of about 24 h. Compound II appears to be a promising cardioselective antimuscarinic agent for the treatment of dysfunctions of the cardiac conduction system such as sinus or nodal bradycardia ("sick-sinus syndrome") and atrioventricular block.
- IT 4614-46-4 4698-11-7

10/598,623

RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation and biol. evaluation of N-substituted dibenzazepines as
cardioselective M2 muscarinic receptor antagonists)

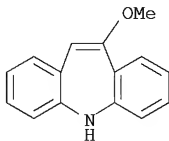
RN 4614-46-4 CAPLUS

CN 5H-Dibenz[b,f]azepine, 10-ethoxy- (CA INDEX NAME)



RN 4698-11-7 CAPLUS

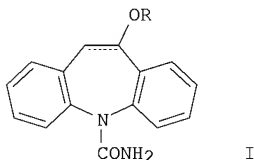
CN 5H-Dibenz[b,f]azepine, 10-methoxy- (CA INDEX NAME)



OS.CITING REF COUNT:	5	THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)
REFERENCE COUNT:	45	THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L62 ANSWER 28 OF 46 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 1997:696744 CAPLUS
 DOCUMENT NUMBER: 127:358797
 ORIGINAL REFERENCE NO.: 127:70239a,70242a
 TITLE: Preparation of alkoxy carbamazepines and analogs as drugs
 INVENTOR(S): Milanese, Alberto
 PATENT ASSIGNEE(S): Trifarma S.R.L., Italy; Milanese, Alberto
 SOURCE: PCT Int. Appl., 16 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9738978	A1	19971023	WO 1997-EP1742	19970408
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU			
RW:	GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
AU 9726942	A	19971107	AU 1997-26942	19970408
PRIORITY APPLN. INFO.:			IT 1996-MI709	A 19960412
			WO 1997-EP1742	W 19970408
OTHER SOURCE(S):	MARPAT 127:358797			
GI				



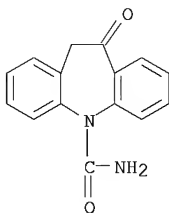
AB Title compds. [I; R = (cyclo)alkyl or aryl(alkyl); dashed line = optional addnl. bond] were prepared as analgesics, antidepressants, and anticonvulsants (no data). Thus, N-acetylaminostilbene was brominated and the product treated with NaOEt to give 10-ethoxyiminostilbene which was treated with KOCH/Cl3CCO2H to give 10-ethoxycarbamazepine.

IT 28721-07-5, Oxcarbazequine
 RI: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of alkoxy carbamazepines and analogs as drugs)

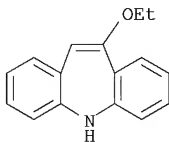
RN 28721-07-5 CAPLUS

CN 5H-Dibenz[b,f]azepine-5-carboxamide, 10,11-dihydro-10-oxo- (CA INDEX NAME)

10/598,623



IT 4614-46-4P, 5H-Dibenz[b,f]azepine, 10-ethoxy-
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation of alkoxy carbamazepines and analogs as drugs)
RN 4614-46-4 CAPLUS
CN 5H-Dibenz[b,f]azepine, 10-ethoxy- (CA INDEX NAME)



OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD
(3 CITINGS)
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L62 ANSWER 29 OF 46 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 1996:728964 CAPLUS

DOCUMENT NUMBER: 126:7999

ORIGINAL REFERENCE NO.: 126:1779a,1782a

TITLE: Preparation of N-substituted 3-piperidinecarboxylic acids for treatment of neurogenic inflammation and insulin resistance in NIDDM or aging

INVENTOR(S): Andersen, Henrik Sune; Andersen, Knud Erik; Hohlweg, Rolf; Madsen, Peter; Joergensen, Tine Krogh; Olsen, Uffe Bang

PATENT ASSIGNEE(S): Novo Nordisk A/s, Den.

SOURCE: PCT Int. Appl., 42 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

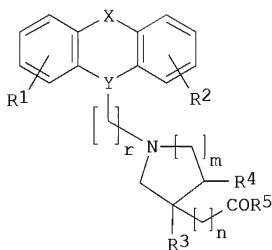
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9631499	A1	19961010	WO 1996-DK140	19960401
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML				
US 5716949	A	19980210	US 1996-625562	19960328
CA 2217130	A1	19961010	CA 1996-2217130	19960401
AU 9651004	A	19961023	AU 1996-51004	19960401
EP 869954	A1	19981014	EP 1996-907328	19960401
EP 869954	B1	20010919		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
JP 11503128	T	19990323	JP 1996-529869	19960401
AT 205843	T	20011015	AT 1996-907328	19960401
ZA 9602736	A	19961016	ZA 1996-2736	19960404
IN 1996MA00559	A	20050304	IN 1996-MA559	19960404
US 5753643	A	19980519	US 1997-862169	19970522
PRIORITY APPLN. INFO.:			DK 1995-406	A 19950407
			DK 1995-1003	A 19950911
			US 1996-625562	A3 19960328
			WO 1996-DK140	W 19960401

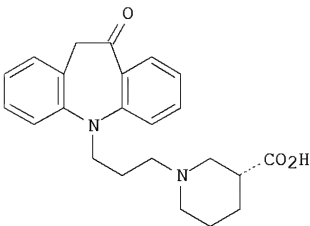
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 126:7999

GI



I



II

AB The title compds. [I; R1, R2 = H, halo, CF3, etc.; Y = N(CH2), CH(CH2), C(:CH) (group in brackets does not participate in the ring system); X = CH2C(O), C(O)CH2, CH2S, etc.; r = 1-3; m = 1-2; n = 1 when m = 1; n = 0 when m = 2; R3, R4 = H, bond (when m = 2); R5 = OH, C1-6 alkoxy] and their salts, useful for the clin. treatment of painful, hyperalgesic and/or inflammatory conditions in which C-fibers play a pathophysiol. role by eliciting neurogenic pain or inflammation, were prepared and formulated. Thus, treatment of 10-methoxy-5H-dibenz[b,f]azepine/THF with BuLi/hexanes followed by addition of Br(CH2)3Cl/THF, reaction of the resulting 1-chloro-3-(10-methoxy-10,11-dihydro-5H-dibenzo[b,f]azepin-5-yl)propane with Et (R)-3-piperidinecarboxylate tartrate in the presence of K2CO3, KI in MeC(O)Et and hydrolysis of the ester group afforded (R)-II.HCl which showed 21% inhibition of formalin induced pain response at 0.1 mg/kg.

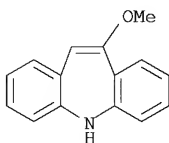
IT 4698-11-7, 10-Methoxy-5H-dibenz[b,f]azepine

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of N-substituted 3-piperidinecarboxylic acids for treatment of neurogenic inflammation and insulin resistance in NIDDM or aging)

RN 4698-11-7 CAPLUS

CN 5H-Dibenz[b,f]azepine, 10-methoxy- (CA INDEX NAME)



OS.CITING REF COUNT:

2

THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD
(2 CITINGS)

L62 ANSWER 30 OF 46 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 1996:713004 CAPLUS

DOCUMENT NUMBER: 126:8146

ORIGINAL REFERENCE NO.: 126:1815a,1818a

TITLE: Novel heterocyclic compounds for treatment of pain
and/or inflammationINVENTOR(S): Joergensen, Tine Krogh; Andersen, Knud Erik; Andersen,
Henrik Sune; Hohlweg, Rolf; Madsen, Peter; Olsen, Uffe
Bang

PATENT ASSIGNEE(S): Novo Nordisk A/s, Den.

SOURCE: PCT Int. Appl., 55 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

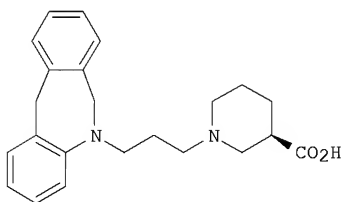
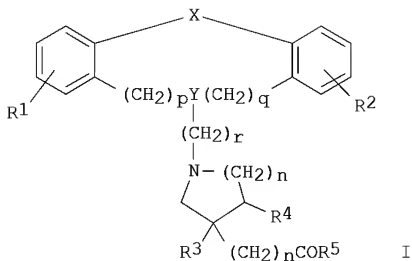
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9631497	A1	19961010	WO 1996-DK138	19960401
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML				
US 5698551	A	19971216	US 1996-623807	19960329
CA 2217206	A1	19961010	CA 1996-2217206	19960401
AU 9651002	A	19961023	AU 1996-51002	19960401
EP 820450	A1	19980128	EP 1996-907326	19960401
EP 820450	B1	20010912		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
JP 11503126	T	19990323	JP 1996-529867	19960401
AT 205489	T	20010915	AT 1996-907326	19960401
ZA 9602738	A	19961024	ZA 1996-2738	19960404
IN 1996MA00557	A	20050304	IN 1996-MA557	19960404
US 5747481	A	19980505	US 1997-863749	19970527
US 5750518	A	19980512	US 1997-863751	19970527
US 5780486	A	19980714	US 1997-863257	19970527
US 5846968	A	19981208	US 1997-863746	19970527
PRIORITY APPLN. INFO.:			DK 1995-403	A 19950407
			DK 1995-1006	A 19950911
			US 1996-623807	A3 19960329
			WO 1996-DK138	W 19960401

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

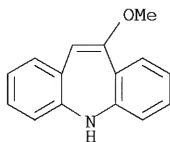
OTHER SOURCE(S): MARPAT 126:8146

GI



- AB Compds. I [R1, R2 = H, halo, CF3, OH, alkyl, alkoxy; Y = various trivalent branched radicals: CH2N(CH2), CON(CH2), (CH2)NCO, CH:C(CH2), OCH(CH2), (CH2)CHO, SCH(CH2), etc. (fragments in parentheses not in ring); X = O, S, CR6R7, CH2CH2, CH:CHCH2, COCH2, OCH2, CH2O, SCH2, NR8, NR9, etc.; q, p = 0, 1; r = 1-3; m = 1, 2; n = 1 when m = 1; n = 0 when m = 2; R3, R4 = H, or R3R4 = bond when m = 2; R5 = OH, alkoxy; R6-R9 = H, alkyl] and their pharmaceutically acceptable salts are disclosed. The invention also relates to esters of I, methods of preparation of I, compns. containing the compds., and their use for the clin. treatment of painful, hyperalgesic and/or inflammatory conditions in which C-fibers play a pathophysiol. role by eliciting neurogenic pain or inflammation. For example, 6,11-dihydro-5H-dibenz[b,e]azepine was subjected to a sequence of: N-acylation with ClCH2CH2COCl (100%), reduction of carbonyl with LiAlH4, amination of the chloride with (R)-3-piperidinecarboxylic acid Et ester tartrate (42%), and alkaline hydrolysis and acidification of the ester (74%), to give title compound II.HCl. At 0.1 mg/kg in mice, II.HCl gave 36% inhibition of formalin-induced paw pain response.
- IT 4698-11-7, 10-Methoxy-5H-dibenz[b,f]azepine
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (starting material; preparation of tricyclic azaheterocyclic carboxylic acids as analgesics and antiinflammatories)
- RN 4698-11-7 CAPLUS
- CN 5H-Dibenz[b,f]azepine, 10-methoxy- (CA INDEX NAME)

10/598,623

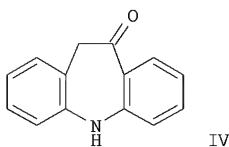
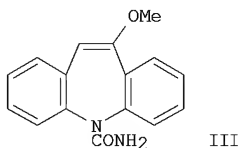
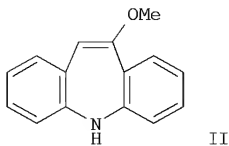
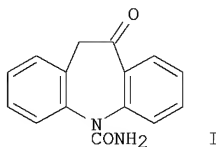


OS.CITING REF COUNT:	7	THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)
REFERENCE COUNT:	4	THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

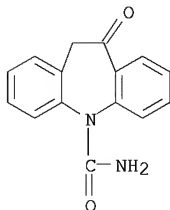
L62 ANSWER 31 OF 46 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 1996:544073 CAPLUS
 DOCUMENT NUMBER: 125:195448
 ORIGINAL REFERENCE NO.: 125:36603a,36606a
 TITLE: Preparation of
 10-oxo-10,11-dihydro-5H-dibenz[b,f]azepin-5-
 carboxamide
 INVENTOR(S): Milanese, Alberto
 PATENT ASSIGNEE(S): Trifarma, S.R.L., Italy
 SOURCE: PCT Int. Appl., 24 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9621649	A1	19960718	WO 1996-EP4	19960103
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MX, NO, NZ, PL, PT, RO, RU, SE, SG, SI, SK, TJ, TM				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9643479	A	19960731	AU 1996-43479	19960103
EP 847390	A1	19980617	EP 1996-900104	19960103
EP 847390	B1	20000816		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE				
AT 195518	T	20000915	AT 1996-900104	19960103
ES 2150093	T3	20001116	ES 1996-900104	19960103
PT 847390	E	20001130	PT 1996-900104	19960103
US 5808058	A	19980915	US 1996-765481	19961224
GR 3034844	T3	20010228	GR 2000-402532	20001114
PRIORITY APPLN. INFO.:			IT 1995-MI56	A 19950113
			WO 1996-EP4	W 19960103
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT				
OTHER SOURCE(S): CASREACT 125:195448				
GI				

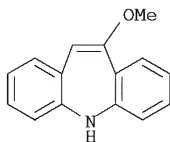


- AB The title compound I was prepared by direct carbamoylation of 10-methoxy-5H-dibenz[b,f]azepine II with isocyanic acid generated in situ from cyanates and acids and subsequent acid hydrolysis of the enol ether III. Compound I was also prepared by acid hydrolysis of II followed by carbamoylation of the intermediate IV with ClSO₂NCO.
- IT 28721-07-5P
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(preparation of 10-oxo-10,11-dihydro-5H-dibenz[b,f]azepin-5-carboxamide)
- RN 28721-07-5 CAPLUS
- CN 5H-Dibenz[b,f]azepine-5-carboxamide, 10,11-dihydro-10-oxo- (CA INDEX NAME)



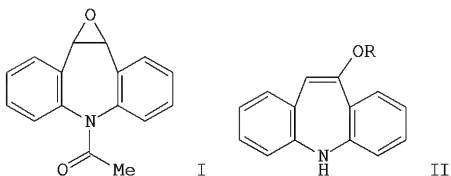
- IT 4698-11-7, 10-Methoxy-5H-dibenz[b,f]azepine
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of 10-oxo-10,11-dihydro-5H-dibenz[b,f]azepin-5-carboxamide)
- RN 4698-11-7 CAPLUS
- CN 5H-Dibenz[b,f]azepine, 10-methoxy- (CA INDEX NAME)

10/598,623

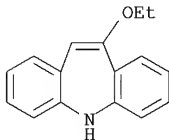


OS.CITING REF COUNT:	13	THERE ARE 13 CAPLUS RECORDS THAT CITE THIS RECORD (15 CITINGS)
REFERENCE COUNT:	4	THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L62 ANSWER 32 OF 46 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 1994:244640 CAPLUS
 DOCUMENT NUMBER: 120:244640
 ORIGINAL REFERENCE NO.: 120:43357a,43360a
 TITLE: New synthesis of 10-alkoxy-5H-dibenz[b,f]azepines
 AUTHOR(S): Haasz, Ferenc; Galamb, Vilmos
 CORPORATE SOURCE: Alkaloida Chem. Co. Ltd., Tiszavasvari, H4440, Hung.
 SOURCE: Synthetic Communications (1994), 24(5), 683-7
 CODEN: SYNCAV; ISSN: 0039-7911
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 120:244640
 GI

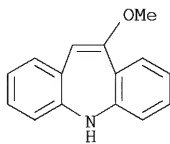


AB The reaction of 5-acetyl-5H-dibenz[b,f]azepine with sodium-hypochlorite led to the 5-acetyl-10,11-epoxy-10,11-dihydro-5H-dibenz[b,f]azepine I. The lithium iodide induced rearrangement of I gave the ketone which reacted with trialky-orthoformates leading to the vinyl ethers II (R = Me, Et).
 IT 4614-46-4P 4698-11-7P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 4614-46-4 CAPLUS
 CN 5H-Dibenz[b,f]azepine, 10-ethoxy- (CA INDEX NAME)



RN 4698-11-7 CAPLUS
 CN 5H-Dibenz[b,f]azepine, 10-methoxy- (CA INDEX NAME)

10/598,623



OS.CITING REF COUNT:

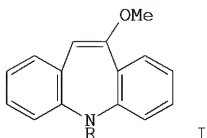
4

THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD
(4 CITINGS)

L62 ANSWER 33 OF 46 CAPLUS COPYRIGHT 2011 ACS on STN

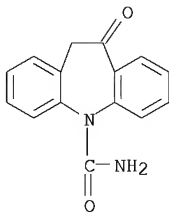
ACCESSION NUMBER: 1994:164010 CAPLUS
 DOCUMENT NUMBER: 120:164010
 ORIGINAL REFERENCE NO.: 120:28931a,28934a
 TITLE: Improved process for producing
 5-carbamoyl-10-oxo-10,11-dihydro-5H-dibenz[b,f]azepine
 INVENTOR(S): Haasz, Ferenc; Galamb, Vilmos; Szabo, Jozsef, Mrs.;
 Garadnay, Sandor
 PATENT ASSIGNEE(S): Alkaloida Vegyeszeti Gyar, Hung.
 SOURCE: Hung. Teljes, 8 pp.
 CODEN: HUXXB
 DOCUMENT TYPE: Patent
 LANGUAGE: Hungarian
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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HU 63389	A2	19930830	HU 1991-4116	19911227
PRIORITY APPLN. INFO.:			HU 1991-4116	19911227
OTHER SOURCE(S):	CASREACT	120:164010		
GI				

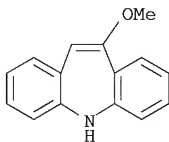


- AB A procedure for preparation of the title compound (oxcarbazepine) from 10-methoxy-5H-dibenz[b,f]azepine (I; R = H) entailing consecutive chlorocarbonylation, ammonolysis, and hydrolysis is thus characterized: (1) chlorocarbonylation of I (R = H) with 30-70% molar excess diphosgene is carried out in aromatic hydrocarbon, halogenated or alkylated aromatic hydrocarbon solvent at 70-140°; (2) ammonolysis of the resultant I (R = COCl) is carried out without its isolation or purification, and without disruption of the reaction system, with NH₃(g) at 60-90°; (3) the resultant carbamoyl derivative I (R = CONH₂) is converted by known methods to oxcarbazepine. Thus, when step (1) is carried out in boiling PhMe, step (2) at 70° with NH₃ bubbling, I (R = CONH₂) is obtained in 58.9% yield. Hydrolysis of I (R = CONH₂) in 2 M HCl afforded 73.5% oxcarbazepine.
- IT 28721-07-5P, Oxcarbazepine
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of oxcarbazepine using diphosgene as chlorocarbonylation agent)
- RN 28721-07-5 CAPLUS
- CN 5H-Dibenz[b,f]azepine-5-carboxamide, 10,11-dihydro-10-oxo- (CA INDEX NAME)

10/598,623



IT 4698-11-7, 10-Methoxy-5H-dibenz[b,f]azepine
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with diphosgene, followed by in situ ammonolysis)
RN 4698-11-7 CAPLUS
CN 5H-Dibenz[b,f]azepine, 10-methoxy- (CA INDEX NAME)



OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD
(3 CITINGS)

L62 ANSWER 34 OF 46 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 1994:164008 CAPLUS

DOCUMENT NUMBER: 120:164008

ORIGINAL REFERENCE NO.: 120:28931a,28934a

TITLE: New process for producing
10-alkoxy-5H-dibenz[b,f]azepines starting from
5-acetyl-5H-dibenzazepine

INVENTOR(S): Haasz, Ferenc; Galamb, Vilmos; Hosztafi, Sandor;
Szabo, Jozsef, Mrs.; Garadnay, Sandor

PATENT ASSIGNEE(S): Alkaloida Vegyeszeti Gyar, Hung.

SOURCE: Hung. Teljes, 11 pp.

CODEN: HUXXBU

DOCUMENT TYPE: Patent

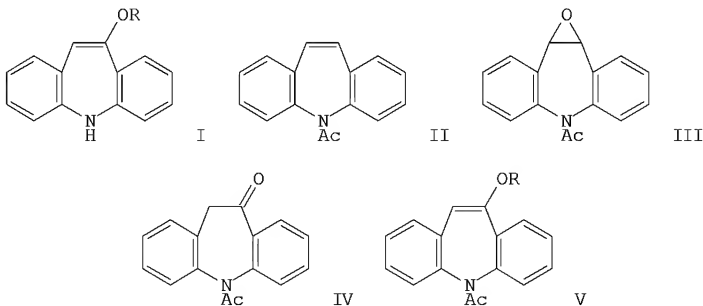
LANGUAGE: Hungarian

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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HU 63391	A2	19930830	HU 1991-4118	19911227
PRIORITY APPLN. INFO.:			HU 1991-4118	19911227
OTHER SOURCE(S):	CASREACT 120:164008			

GI



AB A process for preparation of title compds. I (R = Me, Et) entails (1) epoxidn. of 5-acetyl-5H-dibenzazepine II with NaOCl in presence of silica gel, (2) rearrangement of the resulting epoxide III to ketone IV, (3) enolization of IV with orthoformate ester in presence of acid to acetylalkoxydibenzazepine V, and (4) alkaline hydrolysis of V to I. Thus, epoxide III was prepared in 90.1% yield in step (1), and could be submitted to step (2) without further purification. Rearrangement of III was accomplished in presence of MgI₂.OEt₂ in CHCl₃, affording 75.1% ketone IV. Enolization of IV in MeOH with (EtO)₃CH in presence of HCl/2-propanol afforded 94.4% acetylalkoxydibenzazepine V (R = Me). Alkaline hydrolysis of V (R = Me) with KOH/ethylene glycol afforded 80.3% I (R = Me).

IT 4614-46-4P 4698-11-7P,
10-Methoxy-5H-dibenz[b,f]azepine

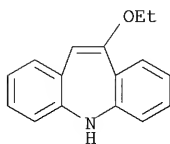
RL: SPN (Synthetic preparation); PREP (Preparation)

10/598,623

(preparation of)

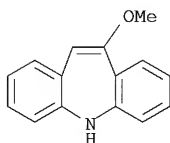
RN 4614-46-4 CAPLUS

CN 5H-Dibenz[b,f]azepine, 10-ethoxy- (CA INDEX NAME)



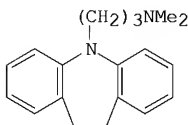
RN 4698-11-7 CAPLUS

CN 5H-Dibenz[b,f]azepine, 10-methoxy- (CA INDEX NAME)



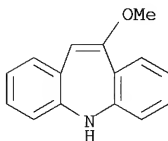
L62 ANSWER 35 OF 46 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 1981:526247 CAPLUS
 DOCUMENT NUMBER: 95:126247
 ORIGINAL REFERENCE NO.: 95:21035a,21038a
 TITLE: Imipramine derivatives and poly(amino acid) conjugates
 INVENTOR(S): Singh, Prithipal; Pirio, Marcel R.
 PATENT ASSIGNEE(S): Syva Co., USA
 SOURCE: U.S., 7 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	---	----	-----	-----
US 4275160	A	19810623	US 1979-55419	19790706
JP 57035522	A	19820226	JP 1980-109083	19800808
JP 02037543	B	19900824		
PRIORITY APPLN. INFO.:			US 1979-55419	A 19790706
ASSIGNMENT HISTORY FOR	US	PATENT AVAILABLE	IN	LSUS DISPLAY FORMAT
OTHER SOURCE(S):		MARPAT 95:126247		
GI				



I

AB The preparation of imipramine derivs. and their conjugation to proteins is disclosed. Thus the process provides for reagents which can be used in sensitive immunoassays or enzyme immunoassays for imipramine and its derivs.
 IT 4698-11-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and reaction with (dimethylamino)propyl chloride)
 RN 4698-11-7 CAPLUS
 CN 5H-Dibenz[b,f]azepine, 10-methoxy- (CA INDEX NAME)



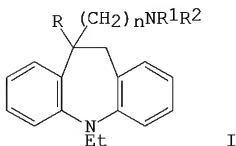
OS.CITING REF COUNT: 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)

L62 ANSWER 36 OF 46 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 1976:180094 CAPLUS
 DOCUMENT NUMBER: 84:180094
 ORIGINAL REFERENCE NO.: 84:29183a,29186a
 TITLE: 5-Alkyl-10-[aminocarbonyl(aminomethyl)(cyano)]-10,11-dihydro-5H-dibenz[b,f]azepine-10-alkanamines
 INVENTOR(S): Cusic, John W.; Ellefson, Charles R.
 PATENT ASSIGNEE(S): G.D. Searle and Co., USA
 SOURCE: U. S. Publ. Pat. Appl. B, 10 pp.
 CODEN: USXXDP
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 520256	I5	19760113	US 1974-520256	19741104
US 3985730	A	19761012		
GB 1531493	A	19781108	GB 1975-45233	19751031
SE 7512262	A	19760505	SE 1975-12262	19751103
SE 412387	C	19800619		
DE 2549175	A1	19760506	DE 1975-2549175	19751103
FR 2289199	A1	19760528	FR 1975-33571	19751103
FR 2289199	B1	19800530		
AU 7586259	A	19770512	AU 1975-86259	19751103
AU 497525	B2	19781214		
CA 1064030	A1	19791009	CA 1975-238931	19751103
JP 51070786	A	19760618	JP 1975-132393	19751104
PRIORITY APPLN. INFO.:			US 1974-520256	A 19741104

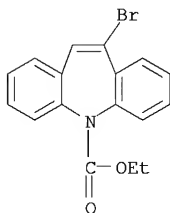
GI



AB 5H-dibenz[b,f]azepine was acetylated, brominated, dehydrobrominated, reduced to give 10-bromo-5-ethyl-5H-dibenz[b,f]azepine, which was treated with CuCN and the 5-ethyl-5H-dibenz[b,f]azepine-10-carbonitrile reduced and treated with Cl(CH₂)_nNR₁R₂ to give I (R = CN; R₁ = R₂ = Et, Me, Me₂CH; R₁ = Me, R₂ = PhCH₂; n = 2,3). I (R = CN) was hydrolyzed to I (R = CONH₂), which was reduced to I (R = CH₂NH₂). At 12.5 mg/kg I (R = CONH₂, R₁ = Me, R₂ = PhCH₂, n = 2)-oxalate was antiarrhythmic. At 100 mg/ml I (R = CN, R₁ = R₂ = Me₂CH, n = 2).HCl inhibited Propionibacterium acnes ATCC 69199.
 IT 59190-51-1P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and reduction of)
 RN 59190-51-1 CAPLUS

10/598,623

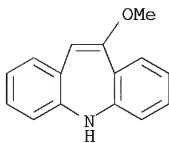
CN 5H-Dibenz[b,f]azepine-5-carboxylic acid, 10-bromo-, ethyl ester (CA INDEX NAME)



L62 ANSWER 37 OF 46 CAPLUS COPYRIGHT 2011 ACS on STN
 ACCESSION NUMBER: 1973:431944 CAPLUS
 DOCUMENT NUMBER: 79:31944
 ORIGINAL REFERENCE NO.: 79:5181a,5184a
 TITLE: 5H-Dibenz(b,f)azepine derivatives
 INVENTOR(S): Schindler, Walter; Blattner, Hans
 PATENT ASSIGNEE(S): Ciba-Geigy Corp.
 SOURCE: U. S. Reissue, 14 pp. Reissue of U.S. 3,501,459 (CA
 73;35241p).
 CODEN: UUXXA2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 27622		19730417		19710923
PRIORITY APPLN. INFO.:			CH 1962-4683	19620417

GI For diagram(s), see printed CA Issue.
 AB The dihydrodibenzazepines I [R = Me2N(CH2)3 MeO; R1 = H, Ac, Me] and the dibenzazepines II (R = Me, MeO, H, Me2NCH2, Me2NCH2CH2, Me2NOCCH2CH2, 1-pyrrolidinylmethyl, etc.; R1 = H, Ac) were prepared Thus, 5-methyl-5H-dibenz[b,f]azepin-10(11H)-one was treated with NaH and Me2N(CH2)3Cl to give 5-methyl-11-[3-(dimethylaminopropyl)-5H-dibenz[b,f]azepin-10(11H)-one which was hydrogenated in presence of copper chromite/barium carbonate to give I[R = Me2N(CH2)3, R1 = Me].
 IT 4698-11-7P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 4698-11-7 CAPLUS
 CN 5H-Dibenz[b,f]azepine, 10-methoxy- (CA INDEX NAME)

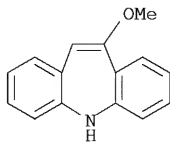


L62 ANSWER 38 OF 46 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 1971:76346 CAPLUS
 DOCUMENT NUMBER: 74:76346
 ORIGINAL REFERENCE NO.: 74:12387a,12390a
 TITLE: Fungicidal 10-acylamino-10,11-dihydrodibenz[b,f]azepines
 INVENTOR(S): Fouche, Jean; Leger, Andre
 PATENT ASSIGNEE(S): Rhone-Poulenc S. A.
 SOURCE: Ger. Offen., 19 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2031236	A	19710107	DE 1970-2031236	19700624
DE 2031236	B2	19750925		
DE 2031236	C3	19760429		
FR 2045705	A5	19710305	FR 1969-21176	19690624
FR 2086796	A6	19711231	FR 1970-12838	19700409
NL 7008793	A	19701229	NL 1970-8793	19700616
ZA 7004238	A	19710224	ZA 1970-4238	19700622
GB 1253486	A	19711117	GB 1970-1253486	19700622
US 3792042	A	19740212	US 1970-48450	19700622
BE 752411	A	19701223	BE 1970-752411	19700623
CH 509758	A	19710715	CH 1970-509758	19700623
IL 34788	A	19730430	IL 1970-34788	19700623
SE 370237	B	19741007	SE 1970-8694	19700623
SE 381162	B	19751201	SE 1973-1346	19700623
DK 133466	B	19760524	DK 1970-3248	19700623
AT 300464	B	19720725	AT 1970-5687	19700624
JP 48037036	B	19731108	JP 1971-11358	19710305
US 3882235	A	19750506	US 1973-384419	19730801
DK 7405171	A	19750526	DK 1974-5171	19741001
DK 133453	B	19760524		
PRIORITY APPLN. INFO.:			FR 1969-21176	A 19690624
			FR 1970-12838	A 19700409
			US 1970-48450	A3 19700622
			DK 1970-3248	A 19700623
GI	For diagram(s), see printed CA Issue.			
AB	The title compds. (I), active especially against Erysiphe polyphaga, E. lini, Podospaera leucotricha, Sphaerotheca pannosa, or Microspora berberidis, were prepared by acylation with ClCOR1 of the 10-amino derivs., prepared by known reduction of the oxime, in the presence of a base, e.g. pyridine. Among 17 compds. prepared were I (R and R1 given): Me, Et; H, Et; Me, Pr; Et, Et; H, hexyl; Pr, Et.			
IT	4698-11-7P RL: SPN (Synthetic preparation); PREP (Preparation of) (preparation of)			
RN	4698-11-7 CAPLUS			
CN	5H-Dibenz[b,f]azepine, 10-methoxy- (CA INDEX NAME)			

10/598,623



OS.CITING REF COUNT:

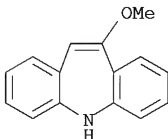
9

THERE ARE 9 CAPLUS RECORDS THAT CITE THIS RECORD
(9 CITINGS)

L62 ANSWER 39 OF 46 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 1970:455985 CAPLUS
 DOCUMENT NUMBER: 73:55985
 ORIGINAL REFERENCE NO.: 73:9197a,9200a
 TITLE: Antidepressant 5H-dibenz[b,f]azepine derivatives
 INVENTOR(S): Schindler, Walter; Blattner, Hans
 PATENT ASSIGNEE(S): Geigy Chemical Corp.
 SOURCE: U.S., 14 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
	US 3501459		19700317	US	19640825
GI	For diagram(s), see printed CA Issue.				
AB	<p>Title compds. (I) and the corresponding 10,11-dihydro compds., where R = H or lower alkyl, Z = straight or branched chain C1-6 alkylene radical and R1 is dialkylamino where the alkyl groups have 1-4 C atoms, which may be bound together directly or through O or a lower alkylimino group, were prepared Thus, 22.3 g 5-methyl-5H-dibenz[b,f]-azepin-10-(11H)-one, 250 ml C6H6, and a suspension of 4 g NaNH2 in PhMe is refluxed 3 hr under N, cooled to 50°, 13.5 g Me2-NCH2CH2CH2Cl added, and the whole refluxed 20 hr to yield 5-methyl-11-(3-dimethylaminopropyl)-5H-dibenz[b,f]azepin-10-(11H)-one-HCl, m. 236-8°. This (free base) is hydrogenated over Cu chromite/BaCO3 to yield 5-methyl-10-(3-dimethylaminopropyl)-10,11-dihydro-5H-dibenz[b,f]azepine (II), b0.008 172-6°. II was converted with refluxing HBr into 10-(3-dimethylaminopropyl)-10,11-dihydro-5H-dibenz[b,f]azepine, b0.004 160°; fumarate m. 276-8°. Many other compds. were cited, some with phys. consts.</p>				
IT	4698-11-7P				
	RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)				
RN	4698-11-7 CAPLUS				
CN	5H-Dibenz[b,f]azepine, 10-methoxy- (CA INDEX NAME)				



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
 (1 CITINGS)

L62 ANSWER 40 OF 46 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 1970:435241 CAPLUS
 DOCUMENT NUMBER: 73:35241
 ORIGINAL REFERENCE NO.: 73:5841a,5844a
 TITLE: Antidepressant 5H-dibenz[b,f]azepine derivatives
 INVENTOR(S): Schindler, Walter; Blattner, Hans
 PATENT ASSIGNEE(S): Geigy Chemical Corp.
 SOURCE: U.S., 14 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3501459	A	19700317	US 1966-564004	19660711
FI 43988	B	19710430	FI 1970-3169	19701125
US 27622	E	19730417	US 1971-183235	19710923
PRIORITY APPLN. INFO.:			CH 1962-4683	A 19620417
			US 1962-242719	A 19621206
			US 1964-399120	A 19640825
			CH 1965-9799	A 19650713
			CH 1965-10446	A 19650726
			US 1966-564004	A 19660711

GI For diagram(s), see printed CA Issue.

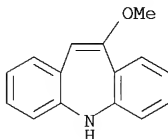
AB Title compds. (I) and their 10,11-dihydro derivs., where R = H or lower alkyl, Z = straight or branched chain alkylene radical of 1-6 C atoms and R1 is a secondary amino group, are prepared Thus, 22.3 g 5-methyl-5H-dibenz[b,f]azepin-10(11H)-one is dissolved in 250 ml C6H6, a suspension of 4 g NaNH2 in PhMe added, the mixture refluxed 3 hr under N, cooled to 50°, 13.5 g Me2N(CH2)3Cl added, and the whole refluxed 20 hr to yield 5-methyl-11-(3-dimethylaminopropyl)-5H-dibenz[b,f]azepin-10(11H)-one-HCl, m. 236-8°. The free base is hydrogenated over Cu chromite/BaCO3 to yield 5-methyl-10-(3-dimethylaminopropyl)-10,11-dihydro-5H-dibenz[b,f]azepine (II), b0.008 172-6°. II was converted with refluxing HBr into 10-(3-dimethylaminopropyl)-10,11-dihydro-5H-dibenz[b,f]azepine, b0.004 160°; fumarate m. 276-8°.

IT 4698-11-7P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

RN 4698-11-7 CAPLUS

CN 5H-Dibenz[b,f]azepine, 10-methoxy- (CA INDEX NAME)



L62 ANSWER 41 OF 46 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 1969:57689 CAPLUS
 DOCUMENT NUMBER: 70:57689
 ORIGINAL REFERENCE NO.: 70:10829a
 TITLE: 10-Amino-10,11-dihydrodibenzo[b,f]azepines
 INVENTOR(S): Fouche, Jean C. L.; Guerey, Claude G. A.
 PATENT ASSIGNEE(S): Rhone-Poulenc S. A.
 SOURCE: S. African, 37 pp.
 CODEN: SFXXAB
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
ZA 6800345		19680619	ZA	
DE 1695666			DE	
FR 1532301			FR	
FR 94320			FR	
GB 1180164			GB	
GB 1180165			GB	
US 3622565		19711123	US	19680117
PRIORITY APPLN. INFO.:			FR	19670118
			FR	19671109

GI For diagram(s), see printed CA Issue.

AB The title compds. (I) (R1, R2, R3 = H, Me, or Et) were prepared either from the oximes IIa of II or from I with other R2 and R3. Thus, 13 g. Na was added in 90 min. to 19 g. IIa (R = Me) in 200 ml. BuOH at 100°, the mixture refluxed 20 min. and worked up to give, after extraction with 2N MeSO3H, 11.5 g. I (R1 = Me, R2 = R3 = H) (III), m. 96° (MeCN). The following I (R2 = R3 = H) were similarly prepared (R1, m.p., and (or) m.p. of salts given): H, 123° (hexane-C6H6 7:3), oxalate 194° (Me2CO); Et, 90° (heptane), fumarate 200° (EtOH); and Ph-CH2, methanesulfonate 205° (EtOH). IIa (R = Me), m. 196°, IIa (R = PhCH2), m. 202°, IIa (R = H), m. 168°, and IIa (R = Et), m. 207°, were prepared from the corresponding II, m. 104°, 147° (Ger. 1,142,870), 141°, and 120°, resp. II (R = H) was prepared from 10-methoxydibenz[b,f]azepine (IV), m. 125° (Swiss 375,721), and II (R = Et) from 5-ethyl-10-methoxydibenz[b,f]azepine, m. 180°, prepared from IV. I (R1 = R2 = R3 = Me) (V), 6.3 g., m. 65-6° (aqueous EtOH), was prepared from 6.7 g. III in 360 ml. EtOH by reaction with 40 g. 30% aqueous CH2O and H in the presence of 18 g. Raney Ni. To prepare I (R1 = R2 = Me, R3 = H) (VI), 2.25 g. III was heated 2 hrs. with 14.8 g. HCO2Et in an autoclave at 80° to give 2 g. I (R1 = Me, R2 = HCO, R3 = H) (VII), m. 142°, which was added in portions to 1.1 g. LiAlH4 in 180 ml. Et2O; the mixture was refluxed 5 hrs. and worked up to give 1.9 g. VI.HCl, m. 238-40°. The following I were similarly prepared: I (R1 = Me, R2 = Et, R3 = H) (VIII), fumarate m. 135-8° (EtOH), methanesulfonate m. 196°, from I (R1 = Me, R2 = Ac, R3 = H), m. 187°; I (R1 = Me, R2 = R3 = Et), m. 70° (petr. ether), from oily I (R1 = Me, R2 = Et, R3 = Ac), made from VIII; I (R1 = R2 = Me, R3 = Et), maleate m. 135° (AcOEt), from oily I (R1 = Me, R2 = HCO, R3 = Et), made from VIII. V was also prepared from VI with Me2SO4, and by LiAlH4-reduction of I

(R1

= R2 = Me, R3 = EtO2C), b0.1 172-5°, made from VI. VI was also prepared with KOH from I (R1 = R2 = Me, R3 = CN), m. 85-7°; with KOH from I (R1 = R2 = Me, R3 = HCO), m. 95°, made from VII with Me2SO4; and with Na from I (R1 = R2 = Me, R3 = p-MeC6H4SO2), m. 182-3°, prepared from I (R1 = Me, R2 = H, R3 = p-MeC6H4SO2), m. 158°, which was made from III. The title compds., especially VI, act on the central

nervous

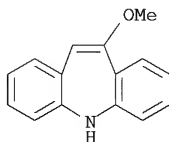
system as antidepressants, analgesics, anticonvulsants, and tranquilizers. They are given in doses of 5-50 mg./kg. animal weight, or 10-250 mg. daily to adult humans.

IT 4698-11-7P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 4698-11-7 CAPLUS

CN 5H-Dibenz[b,f]azepine, 10-methoxy- (CA INDEX NAME)



L62 ANSWER 42 OF 46 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 1967:482124 CAPLUS
 DOCUMENT NUMBER: 67:82124
 ORIGINAL REFERENCE NO.: 67:15483a,15486a
 TITLE: Azepine derivatives
 INVENTOR(S): Geigy, J. R., A.-G.
 SOURCE: Neth. Appl., 14 pp.
 CODEN: NAXXAN
 DOCUMENT TYPE: Patent
 LANGUAGE: Dutch
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO. -----	KIND ----	DATE -----	APPLICATION NO. -----	DATE -----
NL 6609781		19670116	NL 1966-9781	19660712
CH 454873			CH	
CH 457446			CH	
DE 1695082			DE	
FR 1489912			FR	
FR 6398			FR	
GB 1099749			GB	
PRIORITY APPLN. INFO.:			CH	19650713
			CH	19650726

OTHER SOURCE(S): MARPAT 67:82124

GI For diagram(s), see printed CA Issue.

AB The title compds. (I) are useful as antidepressants. Thus, a solution of 5,10-dimethyl-5H-dibenz[b,f]azepine in 375 cc. CC14 was mixed with 30.5 g. N-bromosuccinimide (NBS) and heated at 70° with 2 lamps (200 w.) 3-5 min. to give the 10-BrCH2 derivative (II), m. 109-11°. II (15 g.) in 50 cc. dry C6H6 at 0-5° was mixed with 10 g. Me2NH in 100 cc. C6H6, and then stirred 1 hr. at 40-50° to give I (R1 = R3 = R4 = Me, R2 = H) (III).HCl m. 225-8° (EtOH); III b0.01 140-4°. Similarly prepared were the following I (R1 = Me, R2 = H) (R3, R4, b.p./mm., and m.p. of the HCl salt given): Me, H, 147-9°/0.05, 175-7°; Et, Et, 147-50°/0.04, fumarate 148-9°; [(NR3R4 =) 4-(2-hydroxyethyl)piperazin-1-yl, (IIa), -, 214-7°; [(NR3R4 =) 4-methylpiperazino], -, 224-9°; [(NR31 =) 1-(2-acetoxyethyl)piperazinyl], -, -. 10-Methoxy-5H-dibenz[b,f]azepine, m. 124°, gave via 5-Et derivative, m. 186-8°, 5-ethyl-5H-dibenz[b,f]azepin-10(11H)-one, m. 126-8°, and further the 5-ethyl-10-methyl-10,11-dihydro-5H-dibenz[b,f]azepine, which by treatment with NBS gave the 5-Et analog (IV) of II. From IV the following I (R1 = Et, R2 = H) were prepared: R3 = R4 = Me, b0.04 150-2° (HCl salt m. 247-9°); and (NR3R4 =) pyrrolidino, m. 92° (HCl salt m. 170-2°). III was also prepared by treating 10-(dimethylaminomethyl)-5H-dibenz[b,f]azepine in PhMe with NaNH2, and then with MeI. Other I (R1 = Me) prepared were (R2, NR3R4, b.p./mm., and HCl salt m.p. given): H, pyrrolidino, 160-4°/0.01, 130-2°; H, piperidino, 172-5°/0.01, 171-4°; H, Me2N, 145-9°/0.04, 156-60°; Me, pyrrolidino, 168-7°/0.03, 193-6°. The mixture of 17 g. Et piperazine-1-carboxylate in 100 cc. C6H6 and 15 g. II in 75 cc. C6H6 was refluxed 1 hr.; then the crude product was refluxed 8 hrs. with 18 g. KOH in 72 cc. EtOH to give I [R1 = Me, R2 = H, (NR3R4 =) piperazino].2HCl (V.2HCl), m. 814-19°. V (15 g.) in 150 cc. PhMe and 70 g. K2CO3 was boiled 4 hrs. with 12.5 g. HOCH2CH2Br, to give IIa. IIa may also be obtained from V and ethylene

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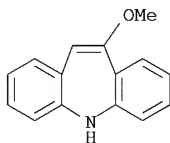
oxide in EtOH.

IT 4698-11-7P

RL: SPN (Synthetic preparation); PRP (Properties); PREP (Preparation)
(Azepine derivatives)

RN 4698-11-7 CAPLUS

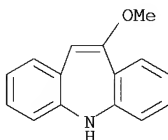
CN 5H-Dibenz[b,f]azepine, 10-methoxy- (CA INDEX NAME)



L62 ANSWER 43 OF 46 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 1966:490602 CAPLUS
 DOCUMENT NUMBER: 65:90602
 ORIGINAL REFERENCE NO.: 65:16952c-e
 TITLE: New (10-substituted) azepine derivatives
 INVENTOR(S): Schindler, Walter; Blattner, Hans
 PATENT ASSIGNEE(S): J. R. Geigy A.-G
 SOURCE: 4 pp.; Addn. to Swiss 375,721 (see Ger. 1,142,870, CA 59, 11454e)
 DOCUMENT TYPE: Patent
 LANGUAGE: Unavailable
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	CH 405319		19660715	CH 1960-1575164	19600805
PRIORITY APPLN. INFO.:				CH	19600805
AB	Addition of Br 407 in C HCl3 250 to 5-acetyl-5H-dibenz[b,f]azepine 600 in CHCl3 1200 parts gave 5-acetyl-10,11-dibromo-10,11-dihydro-5H-dibenz[b,f]azepine (I), m. 136-8°. From I 125 and NaOMe 135 in MeOH 1000 parts refluxed 16 hrs. was obtained 10-methoxy-5H-dibenz[b,f]azepine (II), m. 124°. A mixture of II 268 and PhCH2Cl 192 in C6H6 1340 was stirred at 50-5° while adding NaNH2 62 parts in PhMe to give 5-benzyl-10-methoxydibenz[b,f]azepine (III), m. 121°. Refluxing III 318 in 2N HCl 1000 parts 1 hr. gave 5-benzyl-5H-dibenz[b,f]azepin-10 (11H)-one (IV), m. 152°. To the Grignard reagent from P (94.2) and Mg (14.7) in Et2O 180 at 0° was added IV 90 in C6H6 160 parts. After 36 hrs. at room temperature there was obtained an oily hydroxy compound that was refluxed 30 min. with 2N HCl 245 parts to obtain 5-benzyl-10-phenyl-5H-dibenz[b,f]azepine (V). Hydrogenation of V 51 in EtOH with Na 135 gave 5-benzyl-10-phenyl-10,11-dihydro 5H-dibenz[b,f]azepine as an oil that was refluxed with 45% HBr 190 parts 2 hrs. to obtain 10-phenyl-10,11-dihydro-5H-dibenz[b,f]azepine (VI), m. 154° (EtOH). VI is useful as an antiallergenic and psychotherapeutic agent				
IT	4698-11-7P, 5H-Dibenz[b,f]azepine, 10-methoxy-				
	RL: PREP (Preparation)				
	(preparation of)				
RN	4698-11-7 CAPLUS				
CN	5H-Dibenz[b,f]azepine, 10-methoxy- (CA INDEX NAME)				



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
 (1 CITINGS)

L62 ANSWER 44 OF 46 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 1966:19237 CAPLUS
 DOCUMENT NUMBER: 64:19237
 ORIGINAL REFERENCE NO.: 64:3506g-h,3507a-c
 TITLE: New azepine derivatives
 INVENTOR(S): Schindler, Walter; Blattner, Hans
 PATENT ASSIGNEE(S): J. R. Geigy A.-G.
 SOURCE: 2 pp.; Addn. to Swiss 383,977 (See Brit. 943,277, CA 61, 1815e)
 DOCUMENT TYPE: Patent
 LANGUAGE: Unavailable
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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CH 392515		19651015	CH 1964-6915	19640527
PRIORITY APPLN. INFO.:			CH	19640527

GI For diagram(s), see printed CA Issue.

AB When I, where X is a hydrogen, halogen, or low mol. weight alkyl or alkoxy group, and Y hydrogen, halogen, or low mol. weight-alkyl group, and Z a low mol. weight alkyl or alkoxy group is reacted with at least twice the molar amount of an alkali metal compound ROM (II) of low mol. weight alkanol or alkenol

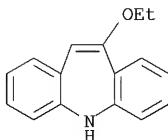
content, where R is a low mol. weight alkyl or alkenyl group, III is obtained. R, X, Y have the above meaning for III. Reacting IV with Br yields I. Comps. of III have enol ether characteristics. Thus, to a solution of 600 g. 5-acetyl-5H-dibenz[b,f]azepine in 1.2 l. CHCl₃ (V) are added with mixing at 5-10° 407 g. Br in 250 ml. of V dropwise. The decolorized solution is cooled to -10° with stirring to give 5-acetyl-10,11-dibromo-10,11-dihydro-5H-dibenz[b,f]azepine (VI), m. 136-8°. To a solution of 135 g. NaOMe in 1 l. distilled MeOH are added 125 g. VI and the mixture refluxed with agitation for 16 hrs., 500 ml. MeOH distilled, and the reaction mixture refluxed another 24 hrs. After cooling, 500 ml. H₂O is slowly added to give 10-methoxy-5H-dibenz[b,f]azepine, m. 124° (absolute EtOH). In an analogous manner 10-ethoxy-5H-dibenz[b,f]azepine, m. 132-3°, 10-butoxy-5H-dibenz[b,f]azepine, m. 113-14°, 10-methoxy-3,7-dichloro-5H-dibenz[b,f]azepine, m. 182-3°, were prepared

IT 4614-46-4P, 5H-Dibenz[b,f]azepine, 10-ethoxy-
4698-11-7P, 5H-Dibenz[b,f]azepine, 10-methoxy-

RL: PREP (Preparation)
(preparation of)

RN 4614-46-4 CAPLUS

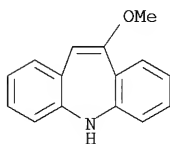
CN 5H-Dibenz[b,f]azepine, 10-ethoxy- (CA INDEX NAME)



10/598,623

RN 4698-11-7 CAPLUS

CN 5H-Dibenz[b,f]azepine, 10-methoxy- (CA INDEX NAME)



L62 ANSWER 45 OF 46 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 1964:432358 CAPLUS
 DOCUMENT NUMBER: 61:32358
 ORIGINAL REFERENCE NO.: 61:5620d-g
 TITLE: 10-Alkoxy-5H-dibenzo[b,f]azepine and
 5H-dibenzo[b,f]-azepin-10(11H)-one derivatives
 INVENTOR(S): Schindler, Walter; Blattner, Hans
 PATENT ASSIGNEE(S): J. R. Geigy A.-G.
 SOURCE: 3 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Unavailable
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

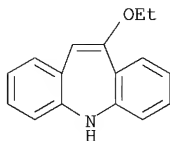
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 1161279	----	19640116	DE 1960-G30937	19601115
PRIORITY APPLN. INFO.:			CH	19591116

AB The title compds. (I) were prepared by N-alkylation of 10-alkoxy-5H-di-benzo[b,f]azepines. II were prepared by O-dealkylation of I. Thus, 10-ethoxy-5H-dibenz[b,f]azepine 12, m. 132-3°, in C6H6 50 (volume) was treated with a C6H6 solution of Me2N(CH2)3Cl (from 9 parts HCl salt), NaNH2 2.2 parts suspended in PhMe added at 50-60° with stirring, the mixture refluxed 20 hrs. and cooled, H2O added, the mixture extracted 5 times with dilute HOAc, the extract basified and extracted with Et2O, the ethereal extract dried (Na2SO4) and evaporated, and the residue distilled to give 80% 5-(λ-dimethylaminopropyl)-10-ethoxy-5H-dibenz[b,f]azepine, b0.001 160-1°; HCl salt m. 166-9°. Similarly, the following II were prepared (R, X, Y, Z, R1, R2, and m.p. or b.p. given): Me, H, H, (CH2)2, Me, Me (III), m. 90°; Me, H, H, (CH2)3, (NR1R2=)piperidino, b0.01 191-3°; Me, 3-Cl, 7-Cl, (CH2)3, Me, Me, m. 96°; Bu, H, H, (CH2)3, Me, Me, b0.003 173°; Me, H, H, (CH2)3, Me, Me, b0.001 170°; Me, H, H, CH2CH2, (NR1R2=)4-methylpiperazino, b0.03.03 195°, and Me, H, H, (CH2)2, (NR1R2=) 1-methyl piperid-2-yl, b0.01 196-200°. III 10 in 2N HCl 80 was refluxed 1 hr., cooled, basified with concentrated NH4OH, and extracted with Et2O, the extract dried and evaporated, and the residue distilled to afford 72% 5-(β-dimethylaminoethyl)-5H-dibenz[b,f]azepin-10(11H)-one, b0.01 174-5°, m. 80°. Similarly, the following II were synthesized [X, Y, Z, R1, R2, and m.p. and (or) b.p. given]: H, H, (CH2)3, Me, Me, b0.05 174°; m. 87°; H, H, (CH2)2, (NR1R2=) morpholino, b0.01 202°; H, H, (CH2)3, (NR1R2=) piperidino, b0.005 188°; H, H, (CH2)3, (NR1R2=) 4-methylpiperazino, m. 122°; 3-Cl, 7-Cl, (CH2)3, Me, Me, m. 87°; H, H, CH2CHMeCH2, Me, Me, b0.15 178°, and H, H, (CH2)2, (NR1R2=) 1-methylpiperidino, b0.01 202-5°. I and II were antihistaminics, anticholinergic agents, sedatives, and reserpine antagonists. These compds. also potentiate the action of narcotics.

IT 4614-46-4
 RL: PRP (Properties)
 (10-Alkoxy-5H-dibenzo[b,f]azepine and
 5H-dibenzo[b,f]-azepin-10(11H)-one derivatives)

RN 4614-46-4 CAPLUS
 CN 5H-Dibenz[b,f]azepine, 10-ethoxy- (CA INDEX NAME)

10/598,623



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)

L62 ANSWER 46 OF 46 CAPLUS COPYRIGHT 2011 ACS on STN

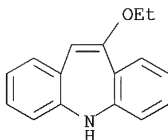
ACCESSION NUMBER: 1964:411219 CAPLUS
 DOCUMENT NUMBER: 61:11219
 ORIGINAL REFERENCE NO.: 61:1815e-g
 TITLE: Dibenz[b,f]azepines
 PATENT ASSIGNEE(S): J. R. Geigy A.-G.
 SOURCE: 4 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Unavailable
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 943277		19631204	GB 1960-39270	19601116
CH 376113			CH	
CH 377825			CH	
CH 383977			CH	
DE 1174785			DE	
US 3144440		1964	US	
US 3144441		19640811	US 1962-223300	19620911
US 3144442		19640811	US 1962-223301	19620911
PRIORITY APPLN. INFO.:			CH	19591116

AB New dibenz[b,f]azepines are suitable as intermediate products for the synthesis of antiallergic and psychotherapeutic products. Thus, 407 parts Br in 250 parts CHCl₃ was dropped into a solution of 600 parts 5-acetyl-5H-dibenzo[b,f]azepine in 1200 parts CHCl₃ at 5-10°, while stirring. The decolorized solution was stirred and cooled to -10° until crystallization of the 5-acetyl-10,11-dibromo-10,11dihydro-5H-dibenzo[b,f]azepine took place. It was filtered off by suction and dried in vacuo, m. 136-8°. Also prepared were 5-acetyl-10-bromo-5H-dibenzo[b,f]azepine, m. 109-10°; 10-ethoxy-5H-dibenzo[b,f]azepine, m. 132-3°; 10-methoxy-5H-debenzo[b,f]azepine, m. 124°; 10-butoxy-5H-dibenzo[b,f]azepine, m. 113-14°; 10-methoxy-2,7-dichloro-5H-dibenzo[b,f]azepine, m. 182-3°; 5H-dibenzo[b,f]azepin-10(11H)-one, m. 145-6°; 3,7dichloro-5H-dibenzo[b,f]azepin-10(11H)-one, m. 318-20°; 3,7-di-methyl-5H-dibenzo[b,f]azepin-10(11H)-one; and 10-methoxy-5H-dibenz[b,f]azepine, m. 124°.

IT 4614-46-4P, 5H-Dibenz[b,f]azepine, 10-ethoxy-4698-11-7P, 5H-Dibenz[b,f]azepine, 10-methoxy-
 RL: PREP (Preparation)
 (preparation of)

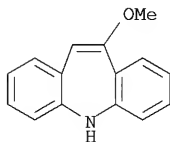
RN 4614-46-4 CAPLUS
 CN 5H-Dibenz[b,f]azepine, 10-ethoxy- (CA INDEX NAME)



10/598,623

RN 4698-11-7 CAPLUS

CN 5H-Dibenz[b,f]azepine, 10-methoxy- (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)